

# Immunotag™ NUCG Polyclonal Antibody

| Antibody Specification |                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Catalog No.            | ITN2953                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product Description    | Immunotag™ NUCG Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                      |
| Size                   | 50 µg, 100 µg                                                                                                                                                                                                                                                                                                                                                                                            |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                                                                                                                                                                                                                                                            |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.                                                                                                                                                                                                                                       |
| Target Protein         | NUCG                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clonality              | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage/Stability      | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                             |
| Application            | WB,ELISA                                                                                                                                                                                                                                                                                                                                                                                                 |
| Recommended Dilution   | WB 1:500-2000 ELISA 1:5000-20000                                                                                                                                                                                                                                                                                                                                                                         |
| Concentration          | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                  |
| Reactive Species       | Human,Mouse                                                                                                                                                                                                                                                                                                                                                                                              |
| Host Species           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                   |
| Immunogen              | Synthesized peptide derived from part region of human protein                                                                                                                                                                                                                                                                                                                                            |
| Specificity            | NUCG Polyclonal Antibody detects endogenous levels of protein.                                                                                                                                                                                                                                                                                                                                           |
| Purification           | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen                                                                                                                                                                                                                                                                                     |
| Form                   | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                           |
| Gene Name              | ENDOG                                                                                                                                                                                                                                                                                                                                                                                                    |
| Accession No.          | Q14249 O08600                                                                                                                                                                                                                                                                                                                                                                                            |
| Description            | endonuclease G(ENDOG) Homo sapiens The protein encoded by this gene is a nuclear encoded endonuclease that is localized in the mitochondrion. The encoded protein is widely distributed among animals and cleaves DNA at GC tracts. This protein is capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA. [provided by RefSeq, Jul 2008], |

## Antibody Specification

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| Cell Pathway/<br>Category   | Apoptosis_Inhibition,Apoptosis_Mitochondrial,Apoptosis_Overview,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protein<br>Expression       | Brain,Uterus,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Subcellular<br>Localization | nucleus,mitochondrion,cytosol,perikaryon,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Protein Function            | cofactor:Manganese or magnesium.,function:Cleaves DNA at double-stranded (DG)n.(DC)n and at single-stranded (DC)n tracts. In addition to deoxyribonuclease activities, also has ribonuclease (RNase) and RNase H activities. Capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA.,miscellaneous:The active site contains 1 hydrated divalent metal cation that has only 1 direct interaction with the protein; all other interactions are via water molecules.,similarity:Belongs to the DNA/RNA non-specific endonuclease family.,subunit:Homodimer., |
| Usage                       | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |