

# Immunotag™ NEIL1 Polyclonal Antibody

| Antibody Specification |  |
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| Catalog No.            | ITT3030  |
| Product Description    | Immunotag™ NEIL1 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         | NEIL-1   |
| Clonality              | Polyclonal   |
| Storage/Stability      | -20°C/1 year   |
| Application            | WB,ELISA   |
| Recommended Dilution   | Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.  |
| Concentration          | 1 mg/ml  |
| Reactive Species       | Human  |
| Host Species           | Rabbit   |
| Immunogen              | The antiserum was produced against synthesized peptide derived from human NEIL1. AA range:291-340  |
| Specificity            | NEIL1 Polyclonal Antibody detects endogenous levels of NEIL1 protein.  |
| Purification           | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen   |
| Form                   | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| Gene Name              | NEIL1  |
| Accession No.          | Q96FI4 Q8K4Q6  |
| Alternate Names        | NEIL1; Endonuclease 8-like 1; DNA glycosylase/AP lyase Neil1; DNA-(apurinic or apyrimidinic site) lyase Neil1; Endonuclease VIII-like 1; FPG1; Nei homolog 1; NEH1; Nei-like protein 1 |

## Antibody Specification

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| Description                 | nei like DNA glycosylase 1(NEIL1) Homo sapiens This gene is a member of the Nei endonuclease VIII-like gene family which encodes DNA glycosylases. The encoded enzyme participates in the DNA repair pathway by initiating base excision repair by removing damaged bases, primarily oxidized pyrimidines. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012],  |
| Cell Pathway/<br>Category   | Base excision repair,   |
| Protein<br>Expression       | Lung,Testis,  |
| Subcellular<br>Localization | nucleus,nucleoplasm,chromosome,cytoplasm,microtubule organizing center,   |
| Protein Function            | catalytic activity:Removes damaged bases from DNA, leaving an abasic site.,catalytic activity:The C-O-P bond 3' to the apurinic or apyrimidinic site in DNA is broken by a beta-elimination reaction, leaving a 3'-terminal unsaturated sugar and a product with a terminal 5'-phosphate.,function:Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as DNA glycosylase that recognizes and removes damaged bases. Has a preference for oxidized pyrimidines, such as thymine glycol, formamidopyrimidine (Fapy) and 5-hydroxyuracil. Has marginal activity towards 8-oxoguanine. Has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates. Has DNA glycosylase/lyase activity towards mismatched uracil and thymine, in particular in U:C and T:C mismatches.,induction:Up-regulated during S-phase.,similarity:Belongs to the FPG family.,tissue specificity:Ubiquitous., |
| Usage                       | For Research Use Only! Not for diagnostic or therapeutic procedures.  |