

# Immunotag™ Nrf2 Polyclonal Antibody

| Antibody Specification |                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No.            | ITT5337                                                                                                                                                            |
| Product Description    | Immunotag™ Nrf2 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         | Nrf2                                                                                                                                                               |
| Clonality              | Polyclonal                                                                                                                                                         |
| Storage/Stability      | -20°C/1 year                                                                                                                                                       |
| Application            | IF, WB, IHC-p, ELISA                                                                                                                                               |
| Recommended Dilution   | IF: 1:50-200 WB 1:500-2000, ELISA 1:10000-20000 IHC 1:50-300                                                                                                       |
| Concentration          | 1 mg/ml                                                                                                                                                            |
| Reactive Species       | Human, Mouse, Rat                                                                                                                                                  |
| Host Species           | Rabbit                                                                                                                                                             |
| Immunogen              | Synthesized peptide derived from human Nrf2 around the non-acetylation site of K599                                                                                |
| Specificity            | Nrf2 Polyclonal Antibody detects endogenous levels of Nrf2 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              | NFE2L2                                                                                                                                                             |
| Accession No.          | Q16236 Q60795 O54968                                                                                                                                               |
| Alternate Names        | NFE2L2; NRF2; Nuclear factor erythroid 2-related factor 2; NF-E2-related factor 2; NFE2-related factor 2; HEBP1; Nuclear factor, erythroid derived 2, like 2       |

## Antibody Specification

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description              | nuclear factor, erythroid 2 like 2(NFE2L2) Homo sapiens This gene encodes a transcription factor which is a member of a small family of basic leucine zipper (bZIP) proteins. The encoded transcription factor regulates genes which contain antioxidant response elements (ARE) in their promoters; many of these genes encode proteins involved in response to injury and inflammation which includes the production of free radicals. Multiple transcript variants encoding different isoforms have been characterized for this gene. [provided by RefSeq, Sep 2015],                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protein Expression       | Fetal liver,Lung,Melanoma,Myeloid leukemia cell,Uterus,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Subcellular Localization | chromatin,nucleus,cytoplasm,centrosome,cytosol,plasma membrane,protein-DNA complex,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Protein Function         | domain:Acidic activation domain in the N-terminus, and DNA binding domain in the C-terminus.,function:Transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. Important for the coordinated up-regulation of genes in response to oxidative stress. May be involved in the transcriptional activation of genes of the beta-globin cluster by mediating enhancer activity of hypersensitive site 2 of the beta-globin locus control region.,PTM:Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus.,similarity:Belongs to the bZIP family.,similarity:Belongs to the bZIP family. CNC subfamily.,similarity:Contains 1 bZIP domain.,subcellular location:Cytosolic under unstressed conditions, translocates into the nucleus upon induction by electrophilic agents.,subunit:Heterodimer. May bind DNA with an unknown protein. Interacts with KEAP1. Interacts via its leucine-zipper domain with the coiled-coil domain of PMF1.,tissue specificity:Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle., |
| Usage                    | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |