

## Nrf2 protein

CatalogNo: YD0126

### Key Features

#### Reactivity

- Human

#### Applications

- WB, SDS-PAGE

### Storage

**Storage\*** -20°C/6 month, -80°C for long storage

**Formulation** Liquid in PBS

### Recommended Dilution Ratios

WB 1:500-2000

### Basic Information

**Source** E.coli

**Purification** E.coli

**Purity** SDS-PAGE >90%

### Immunogen Information

**Sequence** Amino acid: 331-605, with his-MBP tag.

### Target Information

**Gene name** NFE2L2 NRF2

**Protein Name** Nrf2 protein

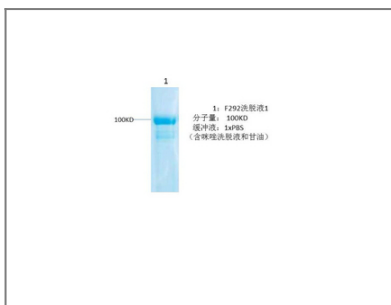
Organism	Gene ID	UniProt ID
Human	<a href="#">4780;</a>	<a href="#">Q16236;</a>
Mouse	<a href="#">18024;</a>	<a href="#">Q60795;</a>

**Cellular Localization** Cytoplasm, cytosol . Nucleus . Cytosolic under unstressed conditions: ubiquitinated and degraded by the BCR(KEAP1) E3 ubiquitin ligase complex (PubMed:15601839, PubMed:21196497). Translocates into the nucleus upon induction by electrophilic agents that inactivate the BCR(KEAP1) E3 ubiquitin ligase complex (PubMed:21196497). .

**Tissue specificity** Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.

**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.,

## Validation Data



## Contact information

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