

## IRP-1 (Phospho Ser711) Rabbit pAb

CatalogNo: YP0754

Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat, Monkey

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 85kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:10000

IF 1:50-200

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human IREB1 around the phosphorylation site of Ser711. AA range: 681-730

**Specificity** Phospho-IRP-1 (S711) Polyclonal Antibody detects endogenous levels of IRP-1 protein only when phosphorylated at S711. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): YGsRR

## | Target Information

**Gene name** ACO1

**Protein Name** Cytoplasmic aconitate hydratase

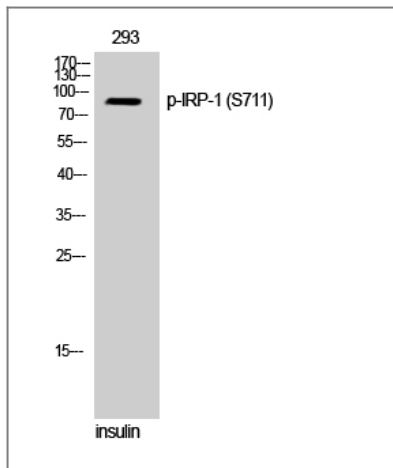
Organism	Gene ID	UniProt ID
Human	<a href="#">48;</a>	<a href="#">P21399;</a>
Mouse	<a href="#">11428;</a>	<a href="#">P28271;</a>
Rat	<a href="#">50655;</a>	<a href="#">Q63270;</a>

**Cellular Localization** Cytoplasm, cytosol .

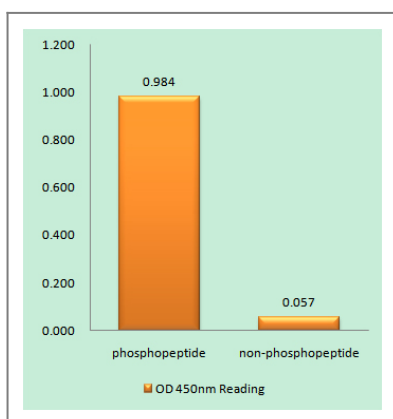
**Tissue specificity** Brain, Brain astrocytoma, Uterus,

**Function** Catalytic activity: Citrate = isocitrate., cofactor: Binds 1 4Fe-4S cluster per subunit., Function: Binds to iron-responsive elements (IRES), which are stem-loop structures found in the 5'-UTR of ferritin, and delta aminolevulinic acid synthase mRNAs, and in the 3'-UTR of transferrin receptor mRNA. Binding to the IRE element in ferritin results in the repression of its mRNA translation. Binding of the protein to the transferrin receptor mRNA inhibits the degradation of this otherwise rapidly degraded mRNA. This protein also expresses aconitase activity., online information: Aconitase entry, similarity: Belongs to the aconitase/IPM isomerase family.,

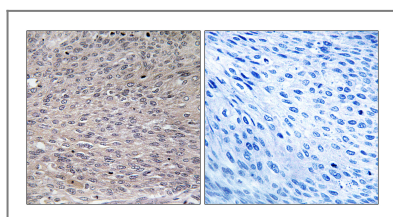
## | Validation Data



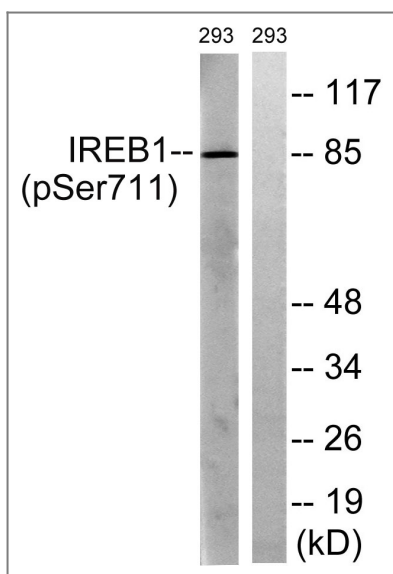
Western Blot analysis of 293 cells using Phospho-IRP-1 (S711) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IREB1 (Phospho-Ser711) Antibody



Immunohistochemistry analysis of paraffin-embedded human thyroid gland, using IREB1 (Phospho-Ser711) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with insulin 0.01U/ml 30', using IREB1 (Phospho-Ser711) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code  
to access additional  
product information:  
**IRP-1 (Phospho  
Ser711) Rabbit pAb**

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