

IRP-1 (Phospho Ser138) Rabbit pAb

CatalogNo: YP1003

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 98kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

IHC 1:100-1:300

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

| 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

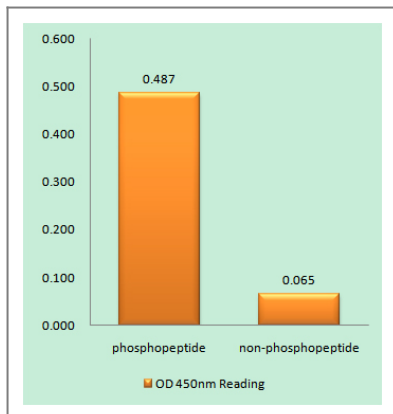
The antiserum was produced against synthesized peptide derived from human IREB1 around the phosphorylation site of Ser138. AA range:106-155

Specificity Phospho-IRP-1 (S138) Polyclonal Antibody detects endogenous levels of IRP-1 protein only when phosphorylated at S138. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):ADsLQ

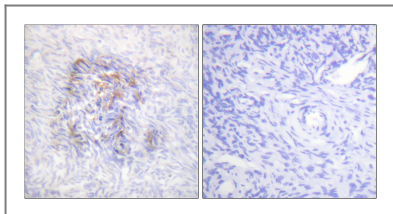
Target Information

Gene name	ACO1		
Protein Name	Cytoplasmic aconitate hydratase		
	Organism	Gene ID	UniProt ID
	Human	48;	P21399;
	Mouse	11428;	P28271;
	Rat	50655;	Q63270;
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.,		

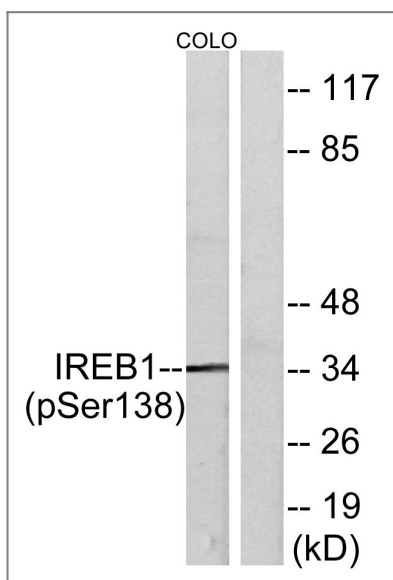
Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IREB1 (Phospho-Ser138) Antibody



Immunohistochemistry analysis of paraffin-embedded human ovary, using IREB1 (Phospho-Ser138) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of IREB1 (Phospho-Ser138) Antibody. The lane on the right is blocked with the IREB1 (Phospho-Ser138) peptide.

Contact information

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