

Catalase (Phospho Tyr386) Rabbit pAb

CatalogNo: YP0728

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 59kD (Observed)

Isotype

- IgG

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.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:20000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Catalase around the phosphorylation site of Tyr385. AA range:361-410

Specificity

Phospho-Catalase (Y386) Polyclonal Antibody detects endogenous levels of Catalase protein only when phosphorylated at Y386. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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): ANyQR

Target Information

Gene name CAT

Protein Name Catalase

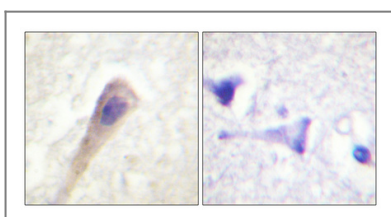
Organism	Gene ID	UniProt ID
Human	847 ;	P04040 ;
Mouse	12359 ;	P24270 ;
Rat	24248 ;	P04762 ;

Cellular Localization Peroxisome.

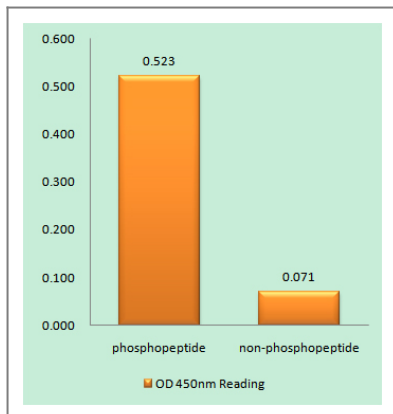
Tissue specificity Brain ,Cajal-Retzius cell ,Erythrocyte ,Eye ,Fibroblast ,Kidney ,Liver ,Placenta ,Platelet ,Skin ,Uterus ,

Function Catalytic activity: $2 \text{ H}_2\text{O}_2 = \text{O}_2 + 2 \text{ H}_2\text{O}$. ,cofactor:Heme group. ,cofactor:NADP. ,Disease:Defects in CAT are the cause of acatalasia (ACATLAS) [MIM:115500]; also known as acatalasemia. This disease is characterized by absence of catalase activity in red cells and is often associated with ulcerating oral lesions. ,Function:Occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. Promotes growth of cells including T-cells , B-cells , myeloid leukemia cells , melanoma cells , mastocytoma cells and normal and transformed fibroblast cells. ,online information:Catalase entry ,PTM:The N-terminus is blocked. ,similarity:Belongs to the catalase family. ,subunit:Homotetramer. ,

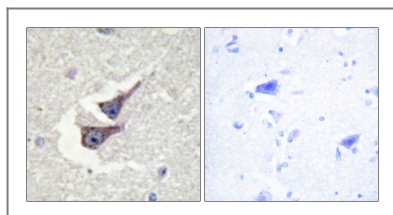
Validation Data



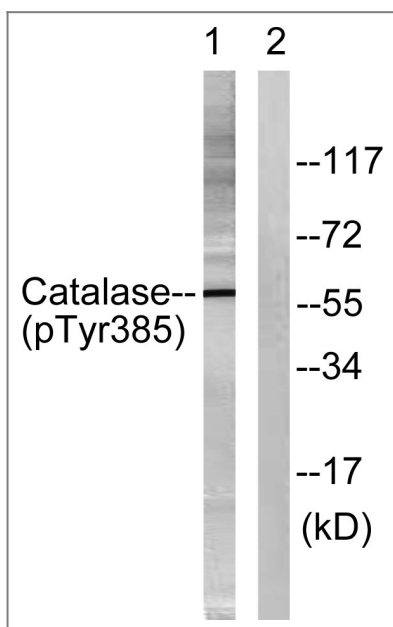
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Catalase (Phospho-Tyr385) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Catalase (Phospho-Tyr385) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells, using Catalase (Phospho-Tyr385) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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