

Anti-Catalase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

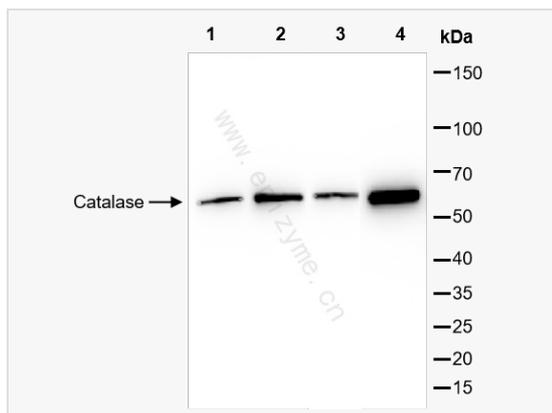
Catalog # R013902

Product Information

Application	IHC-P/IF (Tissue-P), WB, ELISA
Reactivity	Rat, Human, Mouse
Dilution	WB 1:1,000~1:3,000; IHC-P 1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	81R16D05
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Catalase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Catalase Rabbit mAb [81R16D05] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Cas1, CAT, Catalase, Cs1.
Calculated MW	Calculated MW: 60 kDa; Observed MW: 60 kDa
Uniprot ID	P04040
Background	Catalase catalyzes the conversion of hydrogen peroxide to water and oxygen. Research studies show that overexpression of this antioxidant enzyme increases the ability of pancreatic β -cells to scavenge reactive oxygen species (ROS), thereby protecting pancreatic β -cells from oxidative stress.



Western Blot - Anti-Catalase Rabbit mAb [81R16D05]

All lanes: R013902 at 1:3,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates

Lane 3: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 4: Rat spleen whole tissue lysates

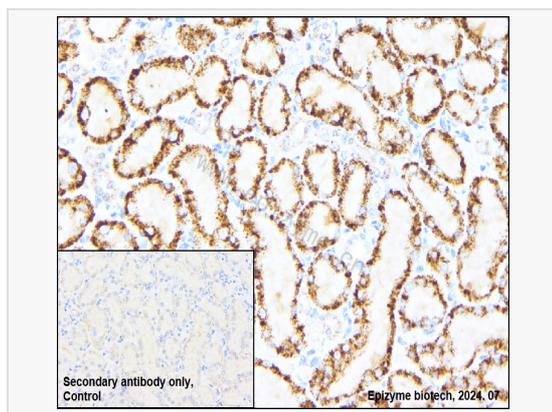
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 60 kDa

Observed band size: 60 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Catalase Rabbit mAb [81R16D05]

Sample: Paraformaldehyde-fixed, paraffin embedded rat kidney tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013902 at 1:200 dilution

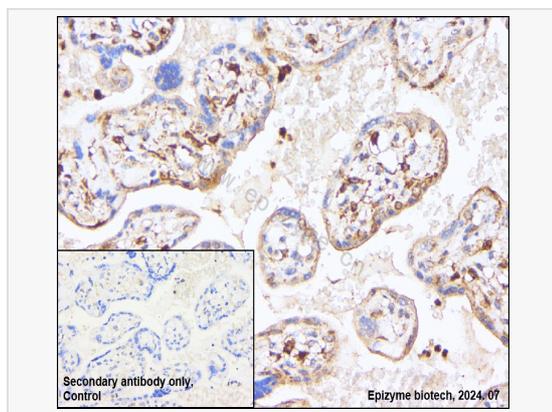
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Catalase Rabbit mAb [81R16D05]

Sample: Paraformaldehyde-fixed, paraffin embedded human placenta tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013902 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.