Anti-DDIT3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015318

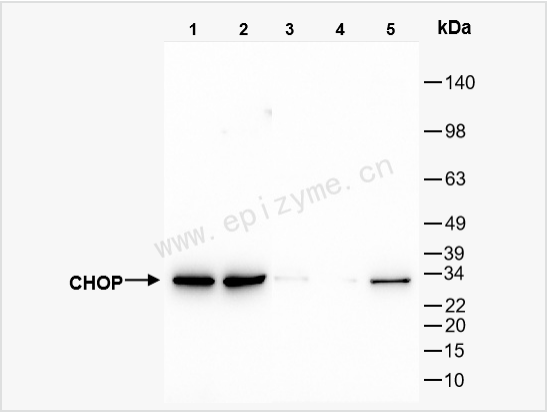
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IHC-P 1:1,000~1:4,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	57I29N31
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human DDIT3
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-DDIT3 Rabbit mAb [57I29N31] is for research use only and not for use in diagnostic or therapeutic procedures.

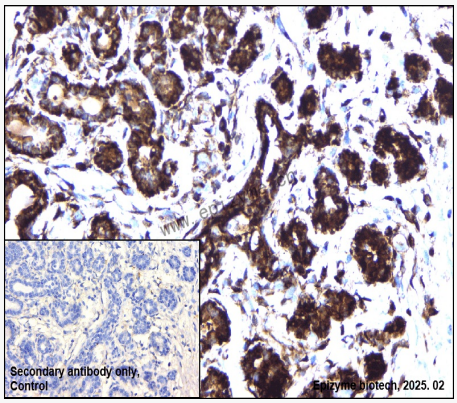
Protein Information

Synonyms	C/EBP homologous protein; C/EBP Homology Protein; C/EBP zeta; C/EBP-homologous protein 10; C/EBP-homologous protein; CCAAT/enhancer binding protein homologous protein; CEBPZ; CHOP 10; CHOP; CHOP-10; CHOP10; DDIT 3; DDIT-3; Ddit3; DDIT3_HUMAN; DNA Damage Inducible Transcript 3; DNA damage-inducible transcript 3 protein; GADD 153; GADD153; Growth Arrest and DNA Damage Inducible Protein 153; Growth arrest and DNA damage inducible protein GADD153; Growth arrest and DNA damage-inducible protein GADD153; MGC4154.
Calculated MW	Calculated MW: 19 kDa; Observed MW: 30 kDa
Uniprot ID	P35638
Gene ID	1649
RRID	AB_3752609
Background	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA), and function as ligand-activated cation channels. These channels are assembled from 4 related subunits, GRIA1-4. The subunit encoded by this gene (GRIA2) is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought to render the channel impermeable to Ca(2+). Human and animal studies suggest that pre-mRNA editing is essential for brain function, and defective GRIA2 RNA editing at the Q/R site may be relevant to amyotrophic lateral sclerosis (ALS) etiology. Alternative splicing, resulting in transcript variants encoding different isoforms, (including the flip and flop isoforms that vary in their signal transduction properties), has been noted for this gene. [provided by RefSeq, Jul 2008].

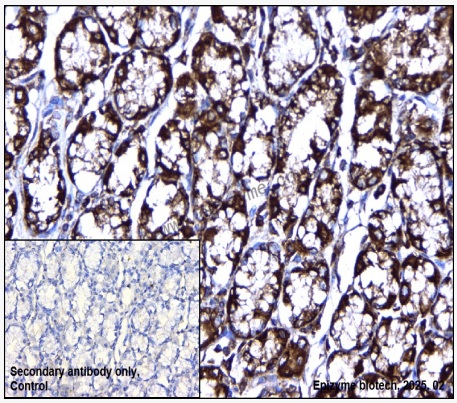
Validation Images



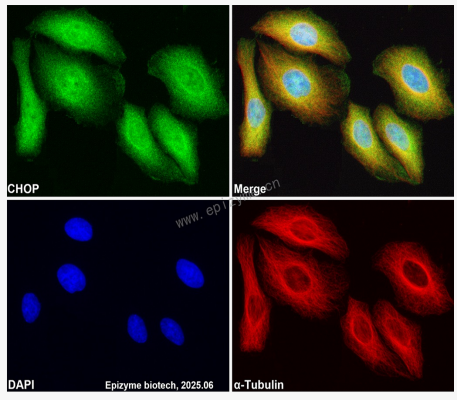
Western Blot - Anti-DDIT3 Rabbit mAb [57I29N31]
All lanes: R015318 at 1:3,000 dilution
Lane 1: A549 (Human lung carinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 4: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 5: Rat liver 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: 19 kDa
Observed band size: 30 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-DDIT3 Rabbit mAb [57I29N31]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015318 at 1:3,000 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-DDIT3 Rabbit mAb [57I29N31]
Sample: Paraformaldehyde-fixed, paraffin embedded human gastric cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015318 at 1:3,000 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.



Immunofluorescence - Anti-DDIT3 Rabbit mAb [57I29N31]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015318 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).