Anti-Keap1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015304

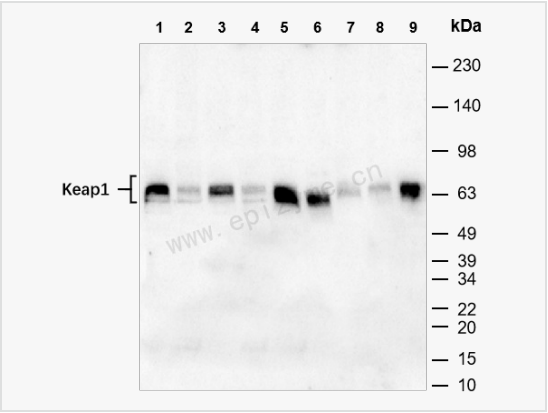
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:2,000~1:10,000; IHC-P 1:200~1:1,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	63T27Q33
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human Keap1
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-Keap1 Rabbit mAb [63T27Q33] is for research use only and not for use in diagnostic or therapeutic procedures.

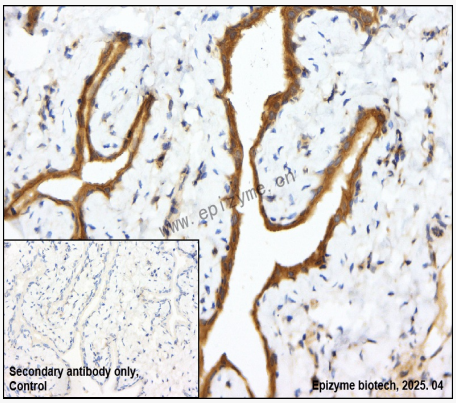
Protein Information

Synonyms	Cytosolic inhibitor of Nrf2; INrf 2; INrf2; Keap 1; KEAP1; KEAP1 HUMAN; Kelch like ECH associated protein 1; Kelch like family member 19; Kelch like protein 19; Kelch like ECH associated protein 1; Kelch like protein 19; KIAA0132; KLHL 19; KLHL19; MGC10630; MGC1114; MGC20887; MGC4407; MGC9454.
Calculated MW	Calculated MW: 70 kDa; Observed MW: 60-70 kDa
Uniprot ID	Q14145
Gene ID	9817
RRID	AB_3753356
Background	This gene encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated protein 1 interacts with NF-E2-related factor 2 in a redox-sensitive manner and the dissociation of the proteins in the cytoplasm is followed by transportation of NF-E2-related factor 2 to the nucleus. This interaction results in the expression of the catalytic subunit of gamma-glutamylcysteine synthetase. Two alternatively spliced transcript variants encoding the same isoform have been found for this gene. [provided by RefSeq, Jul 2008]
Cellular Location	Cytoplasm. Nucleus. Shuttles between cytoplasm and nucleus.
Tissue Location	Broadly expressed, with highest levels in skeletal muscle.

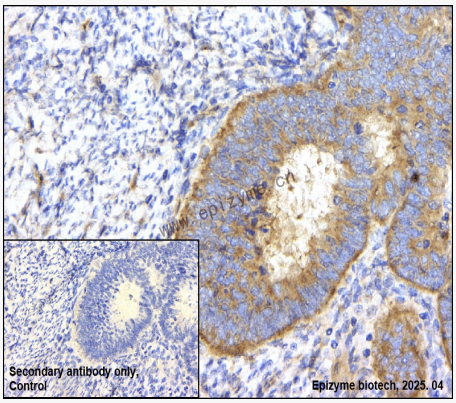
Validation Images



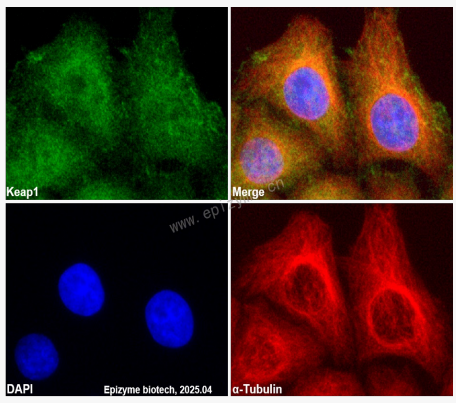
Western Blot - Anti-Keap1 Rabbit mAb [63T27Q33]
All lanes: R015304 at 1:5,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 5: 293T (Human embryonic kidney cell) whole cell lysates
Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 7: Mouse brain whole tissue lysates
Lane 8: Mouse liver whole tissue lysates
Lane 9: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell 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: 70 kDa
Observed band size: 60-70 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Keap1 Rabbit mAb [63T27Q33]
Sample: Paraformaldehyde-fixed, paraffin embedded rat bladder tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015304 at 1:600 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-Keap1 Rabbit mAb [63T27Q33]
Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015304 at 1:600 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-Keap1 Rabbit mAb [63T27Q33]
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: R015304 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).