Anti-IMP3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014870

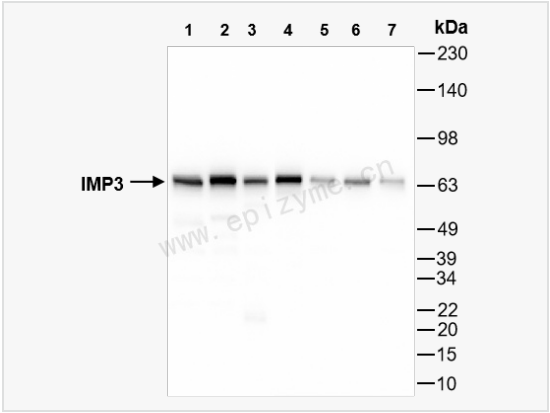
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF (Tissue-P) 1:50~1:100; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	22Q03G39
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human IMP3
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-IMP3 Rabbit mAb [22Q03G39] is for research use only and not for use in diagnostic or therapeutic procedures.

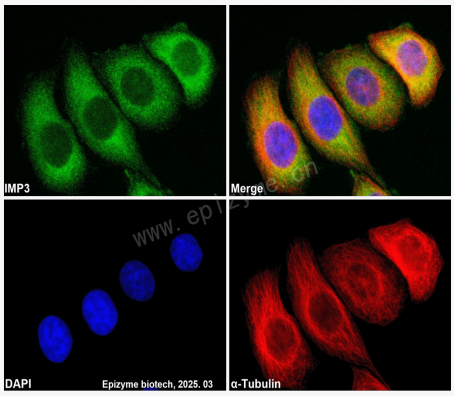
Protein Information

Synonyms	Cancer/testis antigen 98, CT98, DKFZp686F1078, hKOC, IF2B3_HUMAN, IGF II mRNA binding protein 3, IGF-II mRNA-binding protein 3, IGF2 mRNA binding protein 3, IGF2 mRNA-binding protein 3, IGF2BP3, IMP 3, IMP-3, Insulin like growth factor 2 mRNA binding protein 3, Insulin-like growth factor 2 mRNA-binding protein 3, KH domain containing protein overexpressed in cancer, KH domain-containing protein overexpressed in cancer, KOC 1, KOC1, VICKZ 3, VICKZ family member 3, VICKZ3.
Calculated MW	Calculated MW: 64 kDa; Observed MW: 64 kDa
Uniprot ID	O00425
Gene ID	10643
Background	The protein encoded by this gene is primarily found in the nucleolus, where it can bind to the 5' UTR of the insulin-like growth factor II leader 3 mRNA and may repress translation of insulin-like growth factor II during late development. The encoded protein contains several KH domains, which are important in RNA binding and are known to be involved in RNA synthesis and metabolism. A pseudogene exists on chromosome 7, and there are putative pseudogenes on other chromosomes. [provided by RefSeq, Jul 2008]
Cellular Location	Nucleus. Cytoplasm. Found in lamellipodia of the leading edge, in the perinuclear region, and beneath the plasma membrane. The subcytoplasmic localization is cell specific and regulated by cell contact and growth. Localized at the connecting piece and the tail of the spermatozoa. Colocalized with CD44 mRNA in RNP granules.
Tissue Location	Expressed in fetal liver, fetal lung, fetal kidney, fetal thymus, fetal placenta, fetal follicles of ovary and gonocytes of testis,

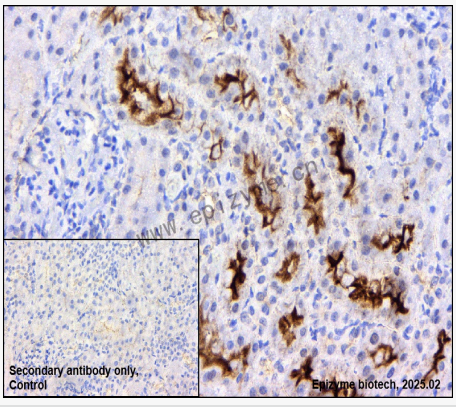
Validation Images



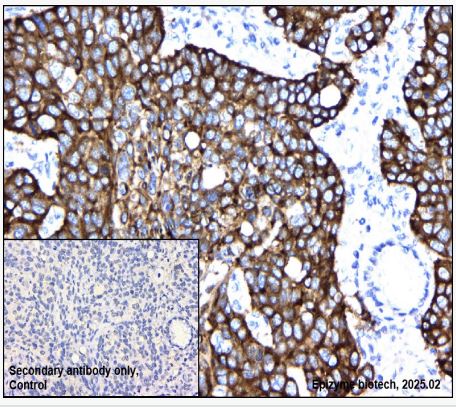
Western Blot - Anti-IMP3 Rabbit mAb [22Q03G39]
All lanes: R014870 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 5: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 6: 293T (Human embryonic kidney cell) whole cell lysates
Lane 7: SCC-9 (Human tongue squamous carcinoma 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: 64 kDa
Observed band size: 64 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-IMP3 Rabbit mAb [22Q03G39]
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: R014870 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).



Immunohistochemistry - Anti-IMP3 Rabbit mAb [22Q03G39]
Sample: Paraformaldehyde-fixed, paraffin embedded rat kidney tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014870 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-IMP3 Rabbit mAb [22Q03G39]
Sample: Paraformaldehyde-fixed, paraffin embedded human lung cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014870 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.