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IMP2 Antibody

Rabbit mAb
Catalog # AP92450

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	Q9Y6M1
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	gf2bp2; IMP2; p62; VICKZ2;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	66121

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human IMP2
Description	Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs. Binding is isoform-specific. May regulate translation of target mRNAs.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

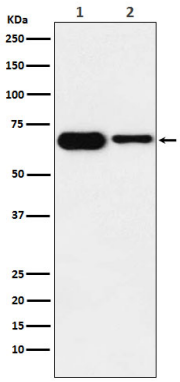
Name	IGF2BP2
Synonyms	IMP2, VICKZ2
Function	RNA-binding factor that recruits target transcripts to cytoplasmic protein-RNA complexes (mRNPs). This transcript 'caging' into mRNPs allows mRNA transport and transient storage. It also modulates the rate and location at which target transcripts encounter the translational apparatus and shields them from endonuclease attacks or microRNA-mediated degradation (By similarity). Preferentially binds to N6-methyladenosine (m6A)-containing mRNAs and increases their stability (PubMed:29476152). Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs (PubMed:9891060). Binding is isoform- specific. Binds to beta-actin/ACTB and MYC transcripts. Increases MYC mRNA stability by binding to the coding region instability determinant (CRD) and binding is enhanced by m6A-modification of the CRD (PubMed:29476152).
Cellular Location	Nucleus. Cytoplasm. Cytoplasm, P-body. Cytoplasm, Stress granule. Note=Localized in cytoplasmic mRNP granules containing untranslated

mRNAs. Localizes at the connecting piece and the tail of the spermatozoa. In response to cellular stress, such as oxidative stress, recruited to stress granules

Tissue Location

Expressed in oocytes, granulosa cells of small and growing follicles, Leydig cells, spermatogonia and semen (at protein level). Expressed in testicular cancer (at protein level). Expressed weakly in heart, placenta, skeletal muscle, bone marrow, colon, kidney, salivary glands, testis and pancreas. Detected in fetal liver, fetal ovary, gonocytes and interstitial cells of the testis

Images



Western blot analysis of IMP2 expression in (1) SH-SY5Y cell lysate; (2) Mouse heart lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.