

IGF2BP2 Antibody

Rabbit mAb Catalog # AP92690

Product Information

Application WB, IHC Primary Accession Q9Y6M1

Reactivity Rat, Human, Mouse

Clonality Monoclonal

Other Names Igf2bp2; IMP2; p62; VICKZ2;

IsotypeRabbit IgGHostRabbitCalculated MW66121

Additional Information

Dilution WB 1:500~1:2000 IHC 1:50~1:200

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human IGF2BP2

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, P-body. Cytoplasm, Stress granule.

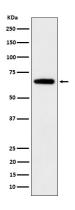
Note=Localized in cytoplasmic mRNP granules containing untranslated

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 IGF2BP2 expression in 293T cell lysate.

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