

KD-Validated Anti-IGF2BP3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1562

Product Information

Application	WB, FC, ICC
Primary Accession	O00425
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB6345
Calculated MW	63705
Gene Name	IGF2BP3
Aliases	IGF2BP3; Insulin Like Growth Factor 2 mRNA Binding Protein 3; IMP-3; IMP3; CT98; Insulin-Like Growth Factor 2 mRNA-Binding Protein 3; IGF-II mRNA-Binding Protein 3; IGF2 mRNA-Binding Protein 3; Cancer/Testis Antigen 98; VICKZ Family Member 3; VICKZ3; KOC1; KH Domain Containing Protein Overexpressed In Cancer; KH Domain-Containing Protein Overexpressed In Cancer; Insulin-Like Growth Factor 2 mRNA Binding Protein 3; IGF II mRNA Binding Protein 3; HKOC; KOC
Immunogen	A synthesized peptide derived from human IMP3

Additional Information

Gene ID	10643
Other Names	Insulin-like growth factor 2 mRNA-binding protein 3, IGF2 mRNA-binding protein 3, IMP-3, IGF-II mRNA-binding protein 3, KH domain-containing protein overexpressed in cancer, hKOC, VICKZ family member 3, IGF2BP3, IMP3, KOC1, VICKZ3

Protein Information

Name	IGF2BP3
Synonyms	IMP3, KOC1, VICKZ3
Function	RNA-binding factor that may recruit 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. Preferentially binds to N6- methyladenosine (m6A)-containing mRNAs and increases their stability (PubMed: 29476152). Binds to the 3'-UTR of CD44 mRNA and stabilizes it, hence promotes cell adhesion and invadopodia formation in cancer cells. 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](#)). Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs.

Cellular Location

Nucleus. Cytoplasm. Cytoplasm, P-body. Cytoplasm, Stress granule. Note=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. In response to cellular stress, such as oxidative stress, recruited to stress granules

Tissue Location

Expressed in fetal liver, fetal lung, fetal kidney, fetal thymus, fetal placenta, fetal follicles of ovary and gonocytes of testis, growing oocytes, spermatogonia and semen (at protein level) Expressed in cervix adenocarcinoma, in testicular, pancreatic and renal-cell carcinomas (at protein level). Expressed ubiquitously during fetal development at 8 and 14 weeks of gestation. Expressed in ovary, testis, brain, placenta, pancreatic cancer tissues and pancreatic cancer cell lines.

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