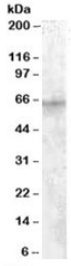
IMP2 Antibody / Insulin-Like Growth Factor mRNA Binding Protein Antibody (R34598)

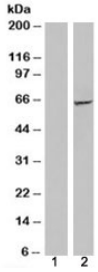
Catalog No.	Formulation	Size
R34598-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Dog
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	10644
Applications	Western blot: 1-3ug/ml ELISA (peptide) LOD: 1:16000
Limitations	This IMP2 Antibody / Insulin-Like Growth Factor mRNA Binding Protein Antibody is available for research use only.



IMP2 Antibody HepG2 Cell WB. Western blot testing of human HepG2 cell lysate with IMP2 / IGF2BP2 antibody at 1 ug/ml. A distinct immunoreactive band is detected at approximately 66 kDa, consistent with the predicted molecular weight of IMP2 (IGF2BP2). The results demonstrate specific detection of this insulin-like growth factor mRNA binding protein, an RNA-binding protein that regulates messenger RNA stability, localization, translation, and m6A-dependent post-transcriptional gene expression.



IMP2 Antibody HEK293 Overexpression WB. Western blot testing of HEK293 whole cell lysates transiently transfected with an IMP2 / IGF2BP2 expression construct and probed with IMP2 / IGF2BP2 antibody. Lane 1: Mock-transfected HEK293 cells (negative control). Lane 2: HEK293 cells overexpressing IMP2 / IGF2BP2. A strong immunoreactive band is detected at approximately 66 kDa exclusively in the overexpression lysate, consistent with the predicted molecular weight of IMP2 (IGF2BP2). These results confirm specific recognition of recombinant IMP2, supporting the antibody's suitability for western blot analysis.

Description

IMP2 Antibody recognizes Insulin-Like Growth Factor 2 mRNA Binding Protein 2 (IGF2BP2), a member of the highly conserved IMP family of RNA-binding proteins that regulates messenger RNA localization, stability, and translation. IMP2 was originally identified through its interaction with insulin-like growth factor 2 messenger RNA but is now known to bind thousands of cellular transcripts involved in growth, metabolism, differentiation, and stress responses. More recently, IMP2 has been established as a major reader of N6-methyladenosine (m6A)-modified RNA, where it stabilizes methylated transcripts and enhances their translation. Consequently, IMP2 Antibody is widely used to investigate RNA metabolism, epitranscriptomic regulation, developmental biology, metabolism, and cancer.

IMP2 contains two RNA recognition motifs and four K homology domains that enable selective binding to target messenger RNAs. Together with the related proteins IMP1 (IGF2BP1) and IMP3 (IGF2BP3), it coordinates post-transcriptional gene regulation by controlling transcript transport, localization, stability, and protein synthesis. IMP2 influences numerous biological processes including embryonic development, stem cell maintenance, insulin signaling, mitochondrial function, glucose homeostasis, and cellular proliferation. Because of these diverse activities, IMP2 Antibody has become an important research tool for studying RNA-binding proteins and post-transcriptional control of gene expression.

Aberrant IMP2 expression has been associated with numerous human diseases, including type 2 diabetes, obesity, nonalcoholic fatty liver disease, cardiovascular disease, and many malignancies such as hepatocellular carcinoma, pancreatic cancer, colorectal cancer, breast cancer, ovarian cancer, lung cancer, and leukemia. In cancer, IMP2 frequently promotes tumor progression by stabilizing oncogenic mRNAs and enhancing proliferation, migration, invasion, metastasis, and resistance to therapy. Its emerging role as an m6A reader has further expanded interest in IMP2 as a biomarker and potential therapeutic target for precision medicine.

NSJ Bioreagents offers highly validated IMP2 Antibody products for reliable detection of endogenous IMP2 in human and animal samples. These antibodies support investigations into RNA-binding proteins, m6A-dependent gene regulation, messenger RNA stability, metabolic signaling, developmental biology, and oncology while providing dependable performance across western blotting, immunohistochemistry, immunofluorescence, flow cytometry, immunoprecipitation, and other research applications.

For additional information on IGF2BP2 function, RNA metabolism and validated research applications, visit our IGF2BP2 Antibody page.

Application Notes

Optimal dilution of the IMP2 Antibody / Insulin-Like Growth Factor mRNA Binding Protein Antibody should be determined by the researcher.

Immunogen

Amino acids KQQEQKYPQGVASQR were used as the immunogen for this IMP2 / IGF2BP2 antibody.

Storage

Aliquot and store the IMP2 / IGF2BP2 antibody at -20oC.

Alternate Names

IGF2BP2 antibody, Insulin Like Growth Factor 2 mRNA Binding Protein 2 antibody, IGF2 mRNA Binding Protein 2 antibody, VICKZ2 antibody, p62 antibody, IMP2 antibody

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