

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat IMP2 isoforms in Western blots. Reactivity with other IMP family members is unknown.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IMP2 Met1-Thr220 Accession # Q9Y6M1
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IMP2 (IGF-II mRNA-binding protein 2; also VICKZ family member 2) is a 62 kDa member of the RRM IMP/VICKZ family of proteins. It is expressed in oocytes, spermatogonia, Leydig cells and follicular granulosa cells. IMP2 binds to AUF1, a binding protein for the AU-rich motifs of mRNA, and facilitates the degradation of cytokine and protooncogene mRNAs. Human IMP2 is 556 amino acids (aa) in length. It contains two RNA recognition regions (aa 3-76 and 82-157), and four KH domains (aa 193-532) that mediate RNA binding. There are multiple splice variants. One shows an insertion of 43 aa after Asn357, a second shows a 17 aa substitution for the N-terminal 80 aa, a third shows a combination of the prior two, and a fourth shows a 15 aa substitution for aa 414-556. Over aa 1-220, human IMP2 is 89% aa identical to mouse IMP2.

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