

Human/Mouse/Rat IMP2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5305

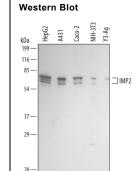
DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects endogenous human, mouse and rat IMP2 isoforms in Western blots. Reactivity with other IMP family members is unknown.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human IMP2 Met1-Thr220 Accession # Q9Y6M1		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human/Mouse/Rat IMP2 by Western Blot. Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, A431 human epithelial carcinoma cell line, Caco-2 human colorectal adenocarcinoma cell line, NIH-3T3 mouse embryonic fibroblast cell line, and Y3-Ag rat myeloid cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat IMP2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5305) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). Specific bands were detected for IMP2 at approximately 62 to 68 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

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Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

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.

Rev. 2/6/2018 Page 1 of 1

