Human/Mouse/Rat IMP Dehydrogenase 1/IMPDH1 Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG

Catalog Number: AF8554

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, rat, and mouse IMP Dehydrogenase 1/IMPDH1 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse IMPDH2 is observed.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf*21 derived recombinaint human IMP Dehydrogenase 1/IMPDH1 Met1-Tyr563 (predicted) Accession # P20839
Formulation	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

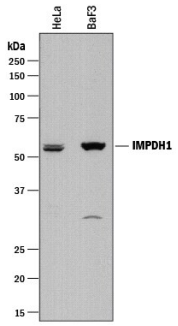
APPLICATIONS

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	1:1000 dilution	See Below

DATA

Western Blot



Detection of Human and Mouse IMP Dehydrogenase 1/IMPDH1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and BaF3 mouse pro-B cell line. PVDF membrane was probed with 1:1000 dilution of Rabbit Anti-Human/Mouse/Rat IMP Dehydrogenase 1/IMPDH1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8554) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Specific bands were detected for IMP Dehydrogenase 1/IMPDH1 at approximately 55-57 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Shipping

The product is shipped with polar packs. 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

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

BACKGROUND

The enzyme IMPDH1 (Inosine-5'-monophosphate dehydrogenase 1) catalyzes the conversion of inosine 5'-phosphate (IMP) to xanthosine 5'-phosphate (XMP), the first committed and rate-limiting step in the de novo synthesis of guanine nucleotides, and therefore plays an important role in the regulation of cell growth.The enzyme is 514 aminoacids long, with a predicted molecular weight of 55 kDa.

PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.