

Mouse anti-Human EIF5 Monoclonal Antibody | anti-EIF5 antibody

Anti-EIF5 Antibody Picoband (monoclonal, 2F13C4)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126937	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

EIF5; Monoclonal Antibody; Anti-EIF5 Antibody Picoband (monoclonal; 2F13C4); anti-EIF5 antibody

PRODUCT SPECIFICATIONS

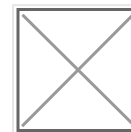
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	2F13C4
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-EIF5 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human EIF5 recombinant protein (Position: D11-D423).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



IF (Immunofluorescence)

Figure 3. IF analysis of EIF5 using anti-EIF5 antibody (AAA126937).EIF5 was detected in an immunocytochemical section of PC-3 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL mouse anti-EIF5 Antibody (AAA126937) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Mouse IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of SiHa cells using anti-EIF5 antibody (AAA126937).Overlay histogram showing SiHa cells stained with AAA126937 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-EIF5 Antibody (AAA126937, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of EIF5 using anti-EIF5 antibody (AAA126937). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human PC-3 whole cell lysates, Lane 4: human RT4 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-EIF5 antigen affinity purified monoclonal antibody (#AAA126937) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for EIF5 at approximately 49 kDa. The expected band size for EIF5 is at 49 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF5 antibody	Eukaryotic translation initiation factor 5 is a protein that in humans is encoded by the EIF5 gene. Eukaryotic translation initiation factor-5 (EIF5) interacts with the 40S initiation complex to promote hydrolysis of bound GTP with concomitant joining of the 60S ribosomal subunit to the 40S initiation complex. The resulting functional 80S ribosomal initiation complex is then active in peptidyl transfer and chain elongations.
Product Categories/Family for anti-EIF5 antibody	Primary Antibodies, Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361337
NCBI GeneID	1983
NCBI Accession #	NP_001960
NCBI GenBank Nucleotide #	NM_001969
UniProt Accession #	P55010; Q53XB3; Q9H5N2; Q9UG48
Molecular Weight	49,223 Da
NCBI Official Full Name	eukaryotic translation initiation factor 5
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 5
NCBI Official Symbol	EIF5
NCBI Official Synonym Symbols	EIF-5; EIF-5A
NCBI Protein Information	eukaryotic translation initiation factor 5
UniProt Protein Name	Eukaryotic translation initiation factor 5
UniProt Gene Name	EIF5
UniProt Synonym Gene Names	eIF-5
UniProt Entry Name	IF5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.