

Rabbit anti-Human, Mouse EIF3E Polyclonal Antibody | anti-EIF3E antibody

Anti-EIF3E Antibody Picoband

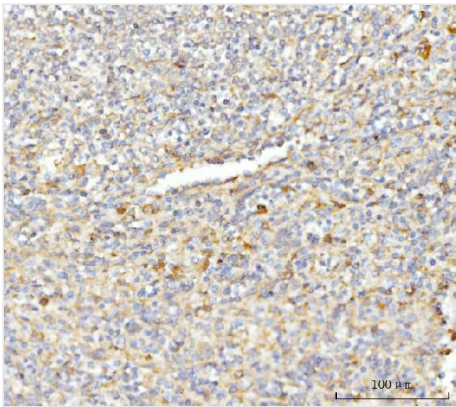
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19399	Rabbit	Human, Mouse	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

EIF3E; Polyclonal Antibody; Anti-EIF3E Antibody Picoband; anti-EIF3E antibody

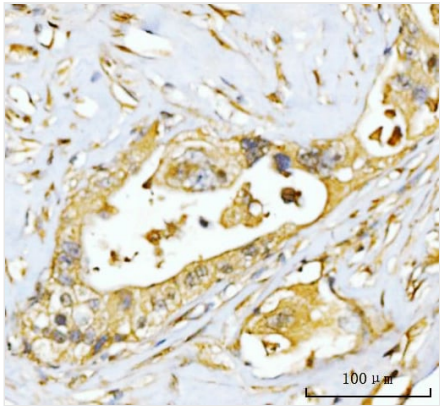
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 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-EIF3E antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5 ug/ml, Human, Mouse IHC-P: 2-5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human, Mouse Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human EIF3E recombinant protein (Position: A160-M249).
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.



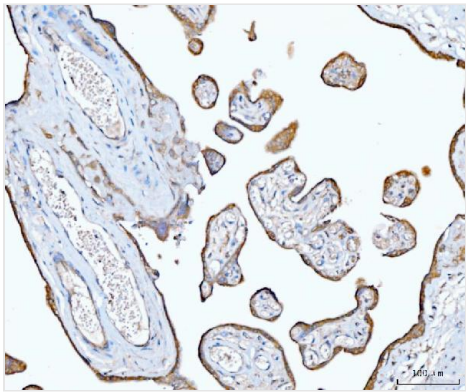
IHC (Immunohistochemistry)

Figure 6. IHC analysis of EIF3E using anti-EIF3E antibody (AAA19399).EIF3E was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-EIF3E Antibody (AAA19399) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



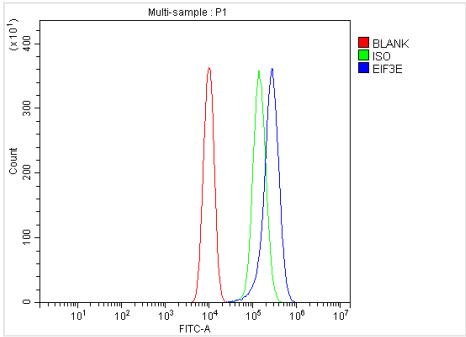
IHC (Immunohistochemistry)

Figure 4. IHC analysis of EIF3E using anti-EIF3E antibody (AAA19399).EIF3E was detected in a paraffin-embedded section of human appendiceal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-EIF3E Antibody (AAA19399) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



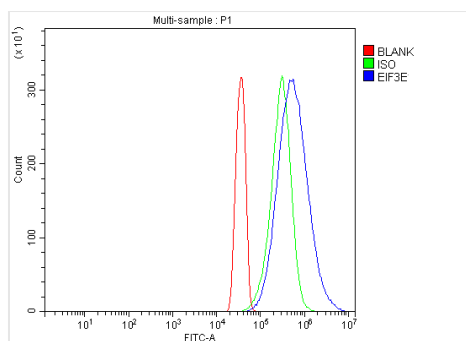
IHC (Immunohistochemistry)

Figure 5. IHC analysis of EIF3E using anti-EIF3E antibody (AAA19399).EIF3E was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-EIF3E Antibody (AAA19399) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



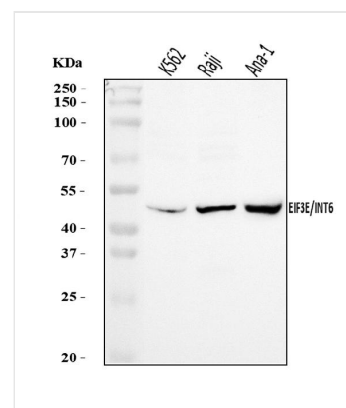
FCM (Flow Cytometry)

Figure 3. Flow Cytometry analysis of RAW264.7 cells using anti-EIF3E antibody (AAA19399).Overlay histogram showing RAW264.7 cells stained with AAA19399 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-EIF3E Antibody (AAA19399, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HeLa cells using anti-EIF3E antibody (AAA19399). Overlay histogram showing HeLa cells stained with AAA19399 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-EIF3E Antibody (AAA19399, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit 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 EIF3E using anti-EIF3E antibody (AAA19399). 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 Raji whole cell lysates, Lane 3: mouse Ana-1 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 rabbit anti-EIF3E antigen affinity purified polyclonal antibody (#AAA19399) 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-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 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 EIF3E at approximately 52 kDa. The expected band size for EIF3E is at 52 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF3E antibody

Eukaryotic translation initiation factor 3 subunit E is a protein that in humans is encoded by the EIF3E gene. The human homolog of EIF3E is located on chromosome region 8q22-q23. It is composed of 13 exons that span 45 kb of genomic DNA. EIF3E is the component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis its localization/assembly. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). And the eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation.

Product Categories/Family for anti-EIF3E antibody

Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503521
NCBI GeneID	3646
NCBI Accession #	NP_001559
NCBI GenBank Nucleotide #	NM_001568
UniProt Accession #	P60228; O43902; Q64058; Q64059; Q64252; Q6FG33; Q8WVK4
Molecular Weight	52,221 Da
NCBI Official Full Name	eukaryotic translation initiation factor 3 subunit E
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 3, subunit E
NCBI Official Symbol	EIF3E
NCBI Official Synonym Symbols	INT6; EIF3S6; EIF3-P48; eIF3-p46

NCBI Protein Information	eukaryotic translation initiation factor 3 subunit E; EIF3E; eIF-3 p48; eukaryotic translation initiation factor 3 subunit 6; eukaryotic translation initiation factor 3, subunit 6 (48kD); eukaryotic translation initiation factor 3, subunit 6 48kDa; mammar
UniProt Protein Name	Eukaryotic translation initiation factor 3 subunit E
UniProt Gene Name	EIF3E
UniProt Entry Name	EIF3E_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eif3e-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/19399>