

Mouse EIF4A1 Monoclonal Antibody | anti-EIF4A1 antibody

Anti-EIF4A1 Antibody (monoclonal, 11B8)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19380	Mouse	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

EIF4A1; Monoclonal Antibody; Anti-EIF4A1 Antibody (monoclonal; 11B8); Eukaryotic initiation factor 4A-I; eIF-4A-I; eIF4A-I; ATP-dependent RNA helicase eIF4A-1; DDX2A; EIF4A; eukaryotic translation initiation factor 4A1; anti-EIF4A1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	11B8
Specificity	Mouse IgG monoclonal antibody for EIF4A1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-EIF4A1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.1-0.25ug/ml Human, Mouse, Rat IHC-P: 2-5ug/ml Human ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x10 ⁶ cells Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence of human EIF4A1 (LQQIELDLKATQALVLA).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of RH35 cells using anti- EIF4A1 antibody (AAA19380).Overlay histogram showing RH35 cells stained with AAA19380 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-EIF4A1 Antibody (AAA19380, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of HEPA1-6 cells using anti- EIF4A1 antibody (AAA19380).Overlay histogram showing HEPA1-6 cells stained with AAA19380 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-EIF4A1 Antibody (AAA19380, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of CACO-2 cells using anti- EIF4A1 antibody (AAA19380).Overlay histogram showing CACO-2 cells stained with AAA19380 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-EIF4A1 Antibody (AAA19380, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 4. IF analysis of EIF4A1 using anti- EIF4A1 antibody (AAA19380).EIF4A1 was detected in immunocytochemical section of CACO-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL mouse anti- EIF4A1 Antibody (AAA19380) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) 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.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of EIF4A1 using anti-EIF4A1 antibody (AAA19380).EIF4A1 was detected in paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml mouse anti-EIF4A1 Antibody (AAA19380) overnight at 4 degree C. Biotinylated goat anti-mouse 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) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of EIF4A1 using anti-EIF4A1 antibody (AAA19380).EIF4A1 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml mouse anti-EIF4A1 Antibody (AAA19380) overnight at 4 degree C. Biotinylated goat anti-mouse 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) (Catalog # with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF4A1 antibody	Eukaryotic initiation factor 4A-I is a protein that in humans is encoded by the EIF4A1 gene. It is mapped to 17p13. 1. EIF4A1 has been shown to interact with EIF4E and eukaryotic translation initiation factor 4 gamma.
References	1. Garcia-Garcia, C., Frieda, K. L., Feoktistova, K., Fraser, C. S., Block, S. M. Factor-dependent processivity in human eIF4A DEAD-box helicase. Science 348: 1486-1488, 2015. 2. Jones, E., Quinn, C. M., See, C. G., Montgomery, D. S., Ford, M. J., Kolble, K., Gordon, S., Greaves, D. R. The linked human elongation initiation factor 4A1 (EIF4A1) and CD68 genes map to chromosome 17p13. Genomics 53: 248-250, 1998. 3. Kim, N. -S., Kato, T., Abe, N., Kato, S. Nucleotide sequence of human cDNA encoding eukaryotic initiation factor 4A1. Nucleic Acids Res. 21: 2012 only, 1993.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503529
NCBI GeneID	1973
NCBI Accession #	NP_001407

NCBI GenBank Nucleotide #	NM_001416
UniProt Accession #	P60842 ; P04765 ; Q5U018 ; Q61516 ; B2R6L8 ; D3DTP9 ; J3QLC4
Molecular Weight	39,548 Da
NCBI Official Full Name	eukaryotic initiation factor 4A-I isoform 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4A1
NCBI Official Symbol	EIF4A1
NCBI Official Synonym Symbols	DDX2A; EIF4A; EIF-4A; eIF4A-I; eIF-4A-I
NCBI Protein Information	eukaryotic initiation factor 4A-I; ATP-dependent RNA helicase eIF4A-1; eukaryotic initiation factor 4A1; eukaryotic translation initiation factor 4A, isoform 1
UniProt Protein Name	Eukaryotic initiation factor 4A-I
UniProt Gene Name	EIF4A1
UniProt Synonym Gene Names	DDX2A; EIF4A; eIF-4A-I; eIF4A-I
UniProt Entry Name	IF4A1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/eif4a1-antibody-clone-11b8-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19380>