

EIF6 Polyclonal Antibody | anti-EIF6 antibody

Anti-EIF6 Antibody

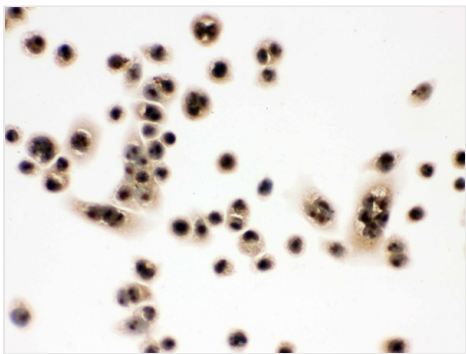
CATALOG # AAA11655	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

EIF6; Polyclonal Antibody; Anti-EIF6 Antibody; Eukaryotic translation initiation factor 6; b(2)gcn; B(2)GCN homolog; B4 integrin interactor; Binding protein of beta-4 integrin; CAB; eIF-6; EIF3A; Eukaryotic translation initiation factor 3A; IF6_HUMAN; ITGB4BP; OK/SW-cl.27; p27 beta 4 integrin binding protein; p27(BBP); p27BBP; RP4-614O4.1 antibody; eukaryotic translation initiation factor 6; anti-EIF6 antibody

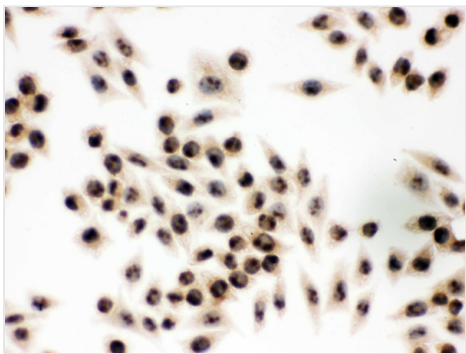
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	245
Applicable Applications for anti-EIF6 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot Concentration: 0.1-0.5ug/ml Immunohistochemistry (IHC) Paraffin Concentration: 0.5-1ug/ml
Immunogen	E Coli-derived human EIF6 recombinant protein (Position: N66-T210). Human EIF6 shares 99.3% amino acid (aa) sequence identity with both mouse and rat EIF6.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



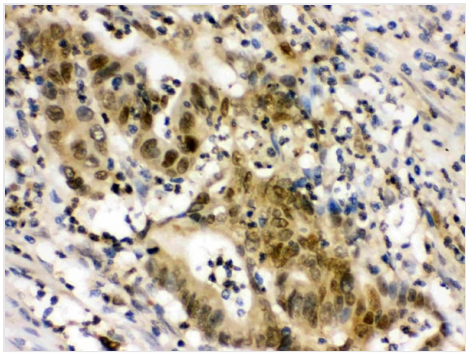
ICC (Immunocytochemistry)

Figure 6. IHC analysis of EIF6 using anti-EIF6 antibody (AAA11655).EIF6 was detected in immunocytochemical section of SW480 cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EIF6 Antibody (AAA11655) 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.



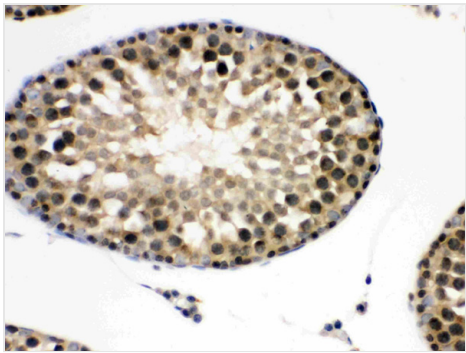
ICC (Immunocytochemistry)

Figure 5. IHC analysis of EIF6 using anti-EIF6 antibody (AAA11655).EIF6 was detected in immunocytochemical section of SMMC-7721 cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EIF6 Antibody (AAA11655) 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.



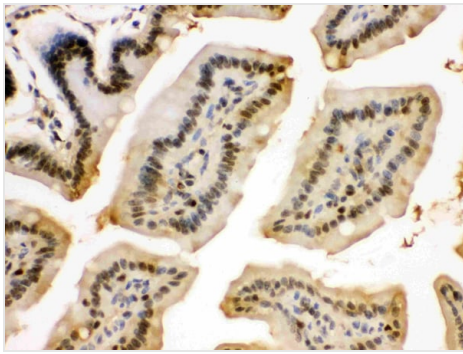
IHC (Immunohistochemistry)

Figure 4. IHC analysis of EIF6 using anti-EIF6 antibody (AAA11655).EIF6 was detected in paraffin-embedded section of Human Intestinal Cancer Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EIF6 Antibody (AAA11655) 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.



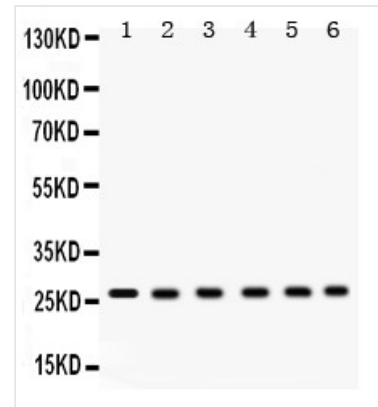
IHC (Immunohistochemistry)

Figure 3. IHC analysis of EIF6 using anti-EIF6 antibody (AAA11655).EIF6 was detected in paraffin-embedded section of Rat Testis Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EIF6 Antibody (AAA11655) 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 2. IHC analysis of EIF6 using anti-EIF6 antibody (AAA11655). EIF6 was detected in paraffin-embedded section of Mouse Intestine Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EIF6 Antibody (AAA11655) 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.



WB (Western Blot)

Figure 1. Western blot analysis of EIF6 using anti-EIF6 antibody (AAA11655). 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 50ug of sample under reducing conditions. Lane 1: Rat Cardiac Muscle Tissue Lysate, Lane 2: Rat Liver Tissue Lysate, Lane 3: Mouse Liver Tissue Lysate, Lane 4: Human Placenta Tissue Lysate, Lane 5: COLO320 Whole Cell Lysate, Lane 6: HELA Whole Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-EIF6 antigen affinity purified polyclonal antibody at 0.5ug/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 1:10000 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 EIF6 at approximately 27KD. The expected band size for EIF6 is at 27KD.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF6 antibody	Description: Rabbit IgG polyclonal antibody for Eukaryotic translation initiation factor 6(EIF6) detection. Tested with WB, IHC-P in Human;Mouse; Rat. Background: EIF6 (Eukaryotic Translation Initiation Factor 6), also called EIF3A or ITGB4BP, is a human gene. By fluorescence in situ hybridization, Sanvito et al. (1998) mapped the ITGB4BP gene to 20q11.2. Ceci et al. (2003) demonstrated that the ribosomal 60S subunit is activated by release of EIF6. In the cytoplasm, EIF6 is bound to free 60S but not to 80S subunits. Furthermore, EIF6 interacts in the cytoplasm with RACK1, a receptor for activated protein kinase C. Gandin et al. (2008) demonstrated that mammalian eIF6 is required for efficient initiation of translation in vivo. Eif6-null mouse embryos were lethal at preimplantation. Heterozygous mice had 50% reduction of eIF6 levels in all tissues, and showed reduced mass of hepatic and adipose tissues due to a lower number of cells and to impaired G1/S cell cycle progression.
References	1. Ceci, M., Gaviraghi, C., Gorrini, C., Sala, L. A., Offenhauser, N., Marchisio, P. C., Biffo, S. Release of eIF6 (p27-BBP) from the 60S subunit allows 80S ribosome assembly. <i>Nature</i> 426: 579-584, 2003. 2. Gandin, V., Miluzio, A., Barbieri, A. M., Beugnet, A., Kiyokawa, H., Marchisio, P. C., Biffo, S. Eukaryotic initiation factor 6 is rate-limiting in translation, growth and transformation. <i>Nature</i> 455: 684-688, 2008. 3. Sanvito, F., Arrigo, G., Zuffardi, O., Agnelli, M., Marchisio, P. C., Biffo, S. Localization of p27 beta-4 binding protein gene (ITGB4BP) to human chromosome region 20q11.2. <i>Genomics</i> 52: 111-112, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	392494084
NCBI GeneID	3692
NCBI Accession #	NP_001254739.1
NCBI GenBank Nucleotide #	NM_001267810.1
UniProt Accession #	P56537; Q6IBN8; Q96TD5; B7ZBG9
Molecular Weight	23,735 Da
NCBI Official Full Name	eukaryotic translation initiation factor 6 isoform a

NCBI Official Synonym Full Names	eukaryotic translation initiation factor 6
NCBI Official Symbol	EIF6
NCBI Official Synonym Symbols	CAB; EIF3A; eIF-6; p27BBP; ITGB4BP; b(2)gcn; p27(BBP)
NCBI Protein Information	eukaryotic translation initiation factor 6
UniProt Protein Name	Eukaryotic translation initiation factor 6
UniProt Gene Name	EIF6
UniProt Synonym Gene Names	eIF-6
UniProt Entry Name	IF6_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/eif6-antibody-western-blot-immunohistochemistry-elisa/11655>