Datasheet for ABIN3044059

anti-EIF6 antibody (Middle Region)

3 Images

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Overview

Quantity:	100 µg
Target:	EIF6
Binding Specificity:	AA 82-96, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Eukaryotic translation initiation factor 6(EIF6) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human EIF6(82-96aa QHIRNSLPDTVQIRR), different from the related rat and mouse sequences by one amino acid.
Sequence:	QHIRNSLPDT VQIRR
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Eukaryotic translation initiation factor 6(EIF6) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat. Gene Name: eukaryotic translation initiation factor 6

Product Details

	Protein Name: Eukaryotic translation initiation factor 6
Purification:	Immunogen affinity purified.

Target Details

Target:	EIF6
Alternative Name:	EIF6 (EIF6 Products)
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. Synonyms: b(2)gcn antibody|B(2)GCN homolog antibody|B4 integrin interactor antibody|Binding protein of beta-4 integrin antibody|CAB antibody|eIF-6 antibody|EIF3A antibody|EIF6 antibody|Eukaryotic translation initiation factor 3A antibody|Eukaryotic translation initiation factor 6 antibody|IF6_HUMAN antibody|ITGB4BP antibody|OK/SW-cl.27 antibody|p27 beta 4 integrin binding protein antibody|p27(BBP) antibody|p27BBP antibody|RP4-614O4.1 antibody
UniProt:	P56537
Pathways:	Ribonucleoprotein Complex Subunit Organization, Ribosome Assembly

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Predicted Species: Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Predicted Species: Rat Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.

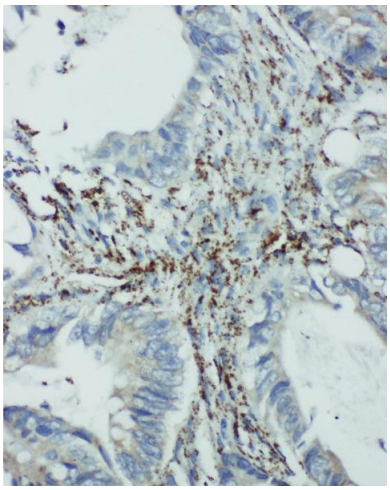
Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).
Restrictions:	For Research Use only

Handling

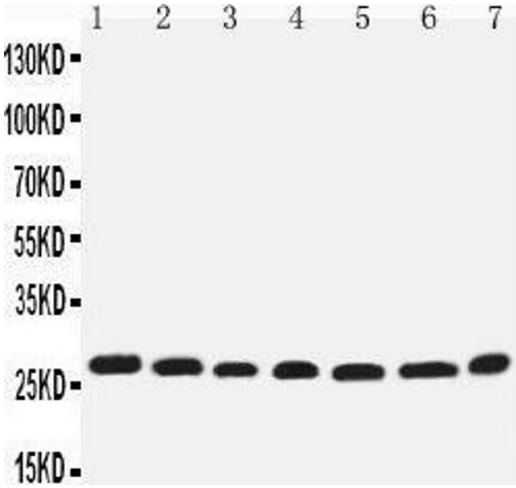
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Images



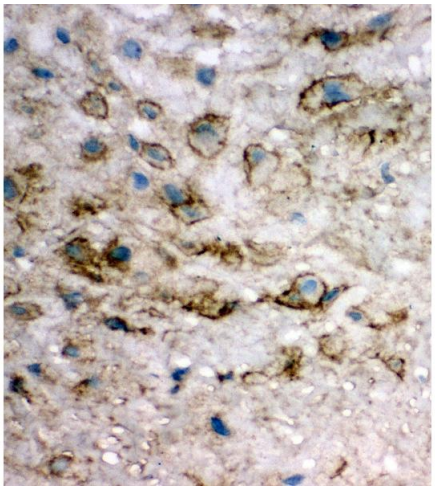
Immunohistochemistry

Image 1. Anti-integrin beta 4 binding protein antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue



Western Blotting

Image 2.



Immunohistochemistry

Image 3. Anti-integrin beta 4 binding protein antibody, IHC(F) IHC(F): Human Placenta Tissue