

Rabbit TBRG4 Polyclonal Antibody | anti-TBRG4 antibody

TBRG4 Antibody

CATALOG # AAA325875	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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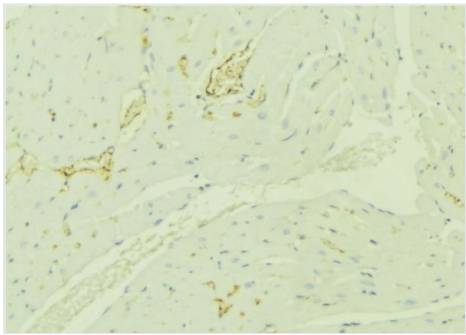
PRODUCT SYNONYMS

TBRG4; Polyclonal Antibody; TBRG4 Antibody; Cell cycle progression protein 2; Cell cycle progression restoration protein 2; CPR2; FAST kinase domain containing protein 4; FAST kinase domain-containing protein 4; FASTKD4; KIAA0948; Protein TBRG4; Tbrg4; TBRG4_HUMAN; Transforming growth factor beta regulator 4; anti-TBRG4 antibody

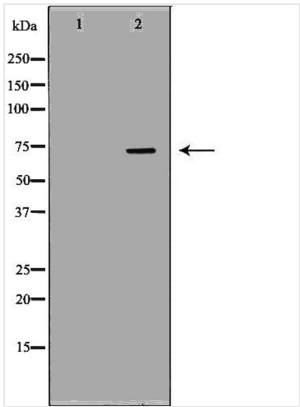
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TBRG4 antibody detects endogenous levels of total TBRG4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	631
Applicable Applications for anti-TBRG4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TBRG4
Subcellular Location	Mitochondrion
Tissue Specificity	Ubiquitously expressed (PubMed:12759187). Expression detected in spleen, thymus, testis, ovary, colon, heart, smooth muscle, kidney, brain, lung, liver and white adipose tissue with highest expression in smooth muscle (PubMed:20869947).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (83%), Chicken (83%), Xenopus (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA325875 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of Hela, using TB RG4 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TB RG4 antibody	Description: TB RG4 (transforming growth factor beta regulator 4), also known as CPR2 (cell cycle progression restoration protein 2) or FASTKD4 (FAST kinase domain-containing protein 4), is a 631 amino acid protein that contains one RAP domain and belongs to the FAST kinase family. TB RG4 is ubiquitously expressed and may have a role in cell cycle progression. Existing as two alternatively spliced isoforms, the gene encoding TB RG4 maps to human chromosome 7p13. Chromosome 7 is approximately 158 million bases long, encodes over 1000 genes and makes up about 5% of the human genome. Chromosome 7 has been linked to Osteogenesis imperfecta, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia. Function: Plays a role in processing of mitochondrial RNA precursors and in stabilization of a subset of mature mitochondrial RNA species, such as MT-CO1, MT-CO2, MT-CYB, MT-CO3, MT-ND3, MT-ND5 and MT-ATP8/6. May play a role in cell cycle progression (PubMed:9383053). Similarity: RAP domain is required for TB RG4 function in mRNA stability and translation. Belongs to the FAST kinase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	40217812
NCBI GeneID	9238
NCBI Accession #	NP_004740.2
NCBI GenBank Nucleotide #	NM_004749.3
UniProt Accession #	Q969Z0; O14710; Q53GI8; Q8NDM4; Q9BUC6; Q9Y2F6; A4D2L2; A4D2L3; D3DVL5; D3DVL6
Molecular Weight	Observed: 71 kDa Predicted: 71 kDa
NCBI Official Full Name	FAST kinase domain-containing protein 4 isoform 1
NCBI Official Synonym Full Names	transforming growth factor beta regulator 4
NCBI Official Symbol	TB RG4
NCBI Official Synonym Symbols	CPR2; FASTKD4
NCBI Protein Information	FAST kinase domain-containing protein 4
UniProt Protein Name	FAST kinase domain-containing protein 4

UniProt Gene Name	TBRG4
UniProt Synonym Gene Names	CPR21 PublicationManual assertion based on opinion iniRef.8; Cell cycle progression protein 2

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/tbrg4-antibody-immunohistochemistry-western-blot-elisa/325875>