

Rabbit TRIO Polyclonal Antibody | anti-TRIO antibody

TRIO Antibody

CATALOG # AAA323534	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

TRIO; Polyclonal Antibody; TRIO Antibody; ARHGEF23; MEBAS; MRD44; PTPRF-interacting protein; tgat; trio; Trio Rho guanine nucleotide exchange factor; TRIO_HUMAN; Triple functional domain (PTPRF interacting); Triple functional domain protein; anti-TRIO antibody

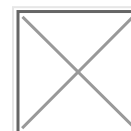
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TRIO antibody detects endogenous levels of total TRIO
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	3097
Applicable Applications for anti-TRIO antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm.
Tissue Specificity	Widely expressed, with highest levels in heart, skeletal muscle, and brain.
Predicted Cross Reactivity	Pig, Zebrafish, Horse, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated

IMAGES


WB (Western Blot)

Western blot analysis of extracts from rat brain and HepG2, using TRIO Antibody.


WB (Western Blot)

Western blot analysis of TRIO expression in HEK293 cells, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TRIO antibody	Function: Guanine nucleotide exchange factor (GEF) for RHOA and RAC1 GTPases (PubMed:8643598, PubMed:27418539). Involved in coordinating actin remodeling, which is necessary for cell migration and growth (PubMed:10341202). In developing hippocampal neurons, limits dendrite formation, without affecting the establishment of axon polarity. Once dendrites are formed, involved in the control of synaptic function by regulating the endocytosis of AMPA-selective glutamate receptors (AMPA-Rs) at CA1 excitatory synapses (By similarity). May act as a regulator of adipogenesis (By similarity). Subunit Structure: Interacts with CARMIL1 (PubMed:19846667). Interacts with PTPRF/LAR (PubMed:8643598). Interacts with ANKRD26 (PubMed:22666460). Post-translational Modifications: Phosphorylated on serine residue(s). Similarity: The N-terminal DBL/GEF domain specifically catalyzes nucleotide exchange for RAC1, leading to the activation of Jun kinase and the production of membrane ruffles. The second DBL/GEF domain is an exchange factor for rhoa and induces the formation of stress fibers. Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	45439359
NCBI GeneID	7204
NCBI Accession #	NP_009049.2
NCBI GenBank Nucleotide #	NM_007118.3
UniProt Accession #	O75962; Q13458; Q59EQ7; Q6PJC9; Q6ZN05; Q8IWK8; D3DTD1
Molecular Weight	Observed: 31 kDa Predicted: 347 kDa
NCBI Official Full Name	triple functional domain protein
NCBI Official Synonym Full Names	trio Rho guanine nucleotide exchange factor
NCBI Official Symbol	TRIO
NCBI Official Synonym Symbols	tgat; MEBAS; MRD44; ARHGEF23
NCBI Protein Information	triple functional domain protein
UniProt Protein Name	Triple functional domain protein
UniProt Gene Name	TRIO

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.