

Rabbit Eg5 Polyclonal Antibody | anti-Eg5 antibody

Eg5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329549	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (83%), Zebrafish (83%), Bovine (92%), Horse (92%), Sheep (92%), Rabbit (92%), Dog (83%), Chicken (83%)	ELISA, Western Blot

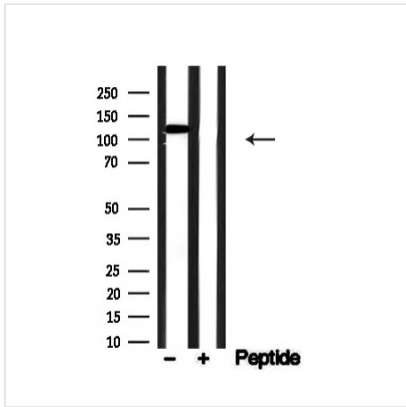
PRODUCT SYNONYMS

Eg5; Polyclonal Antibody; Eg5 Antibody; EG5; HKSP; KIF11; KIF11_HUMAN; Kinesin family member 11; Kinesin like protein 1; Kinesin-like protein 1; Kinesin-like protein KIF11; Kinesin-like spindle protein HKSP; Kinesin-related motor protein Eg5; KNSL1; MCLMR; Thyroid receptor-interacting protein 5; TR-interacting protein 5; TRIP-5; TRIP5; anti-Eg5 antibody

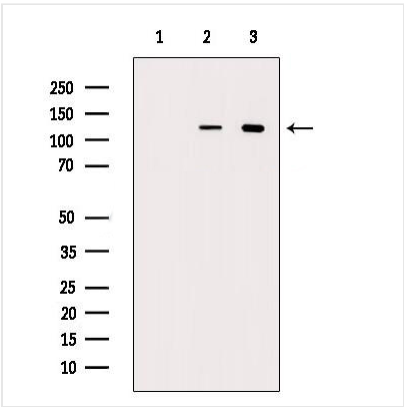
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (83%), Zebrafish (83%), Bovine (92%), Horse (92%), Sheep (92%), Rabbit (92%), Dog (83%), Chicken (83%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Eg5 Antibody detects endogenous levels of total Eg5.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Eg5 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Eg5, corresponding to a region within C-terminal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated exclusively on serine during S phase, but on both serine and Thr-926 during mitosis, so controlling the association of KIF11 with the spindle apparatus (probably during early prophase). A subset of this protein primarily localized at the spindle pole is phosphorylated by NEK6 during mitosis; phosphorylation is required for mitotic function.
Subunit Structure	Interacts with the thyroid hormone receptor in the presence of thyroid hormone. Component of a large chromatin remodeling complex, at least composed of MYSM1, PCAF, RBM10 and KIF11/TRIP5. Interacts (via C-terminus) with the kinase NEK6 in both interphase and mitosis.
Similarity	Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Kinesin family. BimC subfamily.
Subcellular Location	Cytoplasm. Cytoplasm>Cytoskeleton>Spindle pole.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of KIF11/Eg5 in lysates of COLO205, using KIF11/Eg5 Antibody(AF4745).



WB (Western Blot)
Western blot analysis of extracts from various samples, using KIF11/Eg5 Antibody. Lane 1: RAW264.7 cells, blocked with antigen-specific peptides, Lane 2: RAW264.7 cells, Lane 3: C6 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-Eg5 antibody	Motor protein required for establishing a bipolar spindle during mitosis. Required in non-mitotic cells for transport of secretory proteins from the Golgi complex to the cell surface.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13699824
NCBI GeneID	3832
NCBI Accession #	NP_004514.2
NCBI GenBank Nucleotide #	NM_004523.3
UniProt Accession #	P52732; Q15716; Q5VWX0; A0AV49; B2RMV3
Molecular Weight	119,159 Da
NCBI Official Full Name	kinesin-like protein KIF11
NCBI Official Synonym Full Names	kinesin family member 11
NCBI Official Symbol	KIF11
NCBI Official Synonym Symbols	EG5; HKSP; KNSL1; MCLMR; TRIP5
NCBI Protein Information	kinesin-like protein KIF11; TRIP-5; kinesin-like protein 1; TR-interacting protein 5; kinesin-like spindle protein HKSP; kinesin-related motor protein Eg5; thyroid receptor-interacting protein 5
UniProt Protein Name	Kinesin-like protein KIF11
UniProt Gene Name	KIF11
UniProt Synonym Gene Names	EG5; KNSL1; TRIP5; TR-interacting protein 5; TRIP-5
UniProt Entry Name	KIF11_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.