abcam

Product datasheet

Anti-Eg5 antibody ab61199

11 References 3 Images

Overview

Product name	Anti-Eg5 antibody
Description	Rabbit polyclonal to Eg5
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Synthetic non-phosphopeptide derived from human Eg5 around the phosphorylation site of threonine 927.
Positive control	Human lung carcinoma tissue, COLO205 cell extracts and HeLa cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride Without Mg2+ and Ca2+
Purity	Immunogen affinity purified
Purification notes	ab61199 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab61199 in the following tested applications.

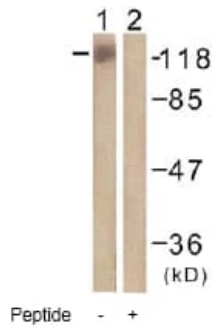
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50 - 1/100.
WB		1/500 - 1/1000. Detects a band of approximately 120 kDa (predicted molecular weight: 120 kDa).
ICC/IF		1/500 - 1/1000.

Target

Function	Motor protein required for establishing a bipolar spindle. Blocking of KIF11 prevents centrosome migration and arrest cells in mitosis with monoastral microtubule arrays.
Involvement in disease	Defects in KIF11 are the cause of microcephaly with or without chorioretinopathy, lymphedema, or mental retardation (MCLMR) [MIM:152950]. An autosomal dominant disorder that involves an overlapping but variable spectrum of central nervous system and ocular developmental anomalies. Microcephaly ranges from mild to severe and is often associated with mild to moderate developmental delay and a characteristic facial phenotype with upslanting palpebral fissures, broad nose with rounded tip, long philtrum with thin upper lip, prominent chin, and prominent ears. Chorioretinopathy is the most common eye abnormality, but retinal folds, microphthalmia, and myopic and hypermetropic astigmatism have also been reported, and some individuals have no overt ocular phenotype. Congenital lymphedema, when present, is typically confined to the dorsa of the feet, and lymphoscintigraphy reveals the absence of radioactive isotope uptake from the webspaces between the toes.
Sequence similarities	Belongs to the kinesin-like protein family. BimC subfamily. Contains 1 kinesin-motor domain.
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). Phosphorylated upon DNA damage, probably by ATM or ATR. A subset of this protein primarily localized at the spindle pole is phosphorylated by NEK6 during mitosis; phosphorylation is required for mitotic function.
Cellular localization	Cytoplasm. Cytoplasm > cytoskeleton > spindle pole.

Images

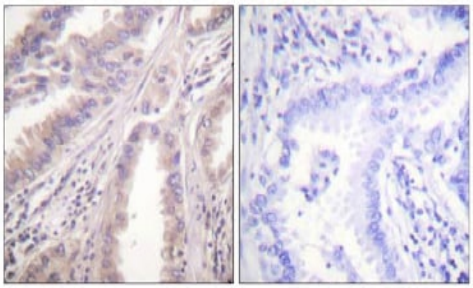


Western blot - Anti-Eg5 antibody (ab61199)

All lanes : Anti-Eg5 antibody (ab61199) at 1/500 dilution

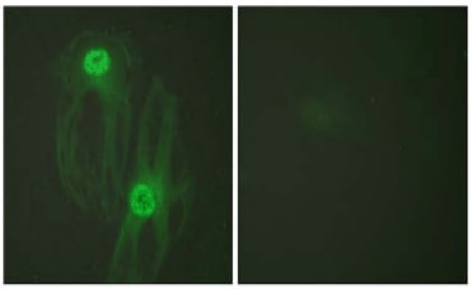
Lane 1 : COLO205 cell extracts
Lane 2 : COLO205 cell extracts with immunising peptide

Predicted band size: 120 kDa
Observed band size: 120 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Eg5 antibody (ab61199)

ab61199 at 1/50 dilution staining Eg5 in human lung carcinoma by Immunohistochemistry, Paraffin-embedded tissue, in the absence (left) or presence (right) of the immunising peptide.



Immunocytochemistry/ Immunofluorescence - Anti-Eg5 antibody (ab61199)

ab61199 at 1/500 dilution staining Eg5 in HeLa cells, by Immunofluorescence, in the absence (left) or presence (right) of the immunising peptide.

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