



# Eg5 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-03133
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	KIF11
<b>Protein Name</b>	Kinesin-like protein KIF11
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human KIF11/Eg5. AA range:892-941
<b>Specificity</b>	Eg5 Polyclonal Antibody detects endogenous levels of Eg5 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	KIF11; EG5; KNSL1; TRIP5; Kinesin-like protein KIF11; Kinesin-like protein 1; Kinesin-like spindle protein HKSP; Kinesin-related motor protein Eg5; Thyroid receptor-interacting protein 5; TR-interacting protein 5; TRIP-5
<b>Observed Band</b>	119kD
<b>Cell Pathway</b>	Cytoplasm . Cytoplasm, cytoskeleton, spindle pole .
<b>Tissue Specificity</b>	Brain,Epithelium,Lung,
<b>Function</b>	function:Motor protein required for establishing a bipolar spindle. Blocking of KIF11 prevents centrosome migration and arrest cells in mitosis with monoastal microtubule arrays.,PTM: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.,similarity:Belongs to the kinesin-like protein family. BimC subfamily.,similarity:Contains 1 kinesin-motor domain.,subunit: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.,

**Background**

kinesin family member 11(KIF11) Homo sapiens This gene encodes a motor protein that belongs to the kinesin-like protein family. Members of this protein family are known to be involved in various kinds of spindle dynamics. The function of this gene product includes chromosome positioning, centrosome separation and establishing a bipolar spindle during cell mitosis. [provided by RefSeq, Jul 2008],

**matters needing attention**

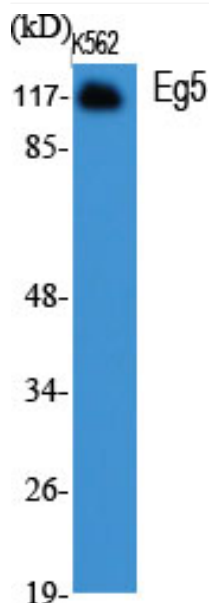
Avoid repeated freezing and thawing!

**Usage suggestions**

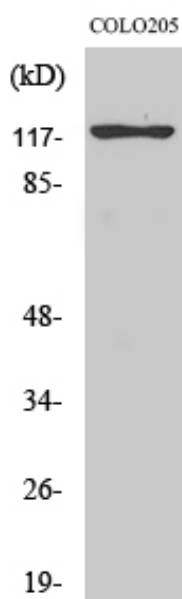
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



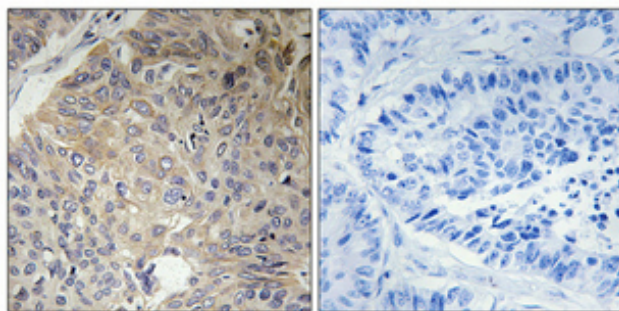
## Products Images



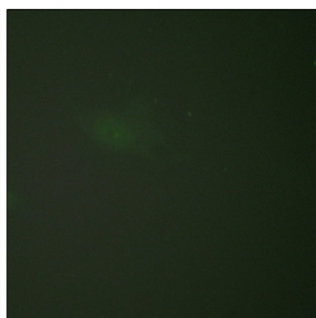
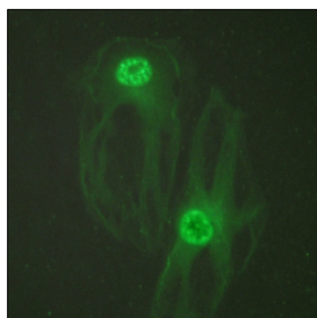
Western Blot analysis of various cells using Eg5 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



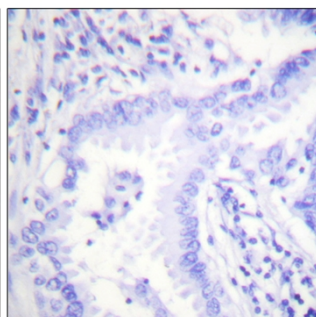
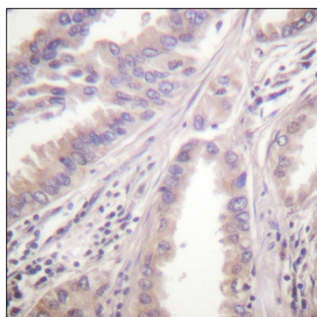
Western Blot analysis of COLO205 cells using Eg5 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunofluorescence analysis of HeLa cells, using KIF11/Eg5 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using KIF11/Eg5 Antibody. The picture on the right is blocked with the synthesized peptide.