ARG66668
anti-Eg 5 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Eg 5
Tested Reactivity	Hu, Mk
Predict Reactivity	Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Eg 5
Species	Human
Immunogen	Synthetic peptide around Thr926 of Human Eg 5.
Conjugation	Un-conjugated
Alternate Names	TRIP-5; Kinesin-related motor protein Eg5; KNSL1; TR-interacting protein 5; HKSP; Kinesin-like spindle protein HKSP; EG5; MCLMR; Kinesin-like protein 1; Kinesin-like protein KIF11; TRIP5; Thyroid receptor-interacting protein 5

Application Instructions

Application table

Application	Dilution
IHC-P	1:100 - 1:300
WB	1:500 - 1:2000

Application Note: IHC-P: Antigen Retrieval: High-pressure and temperature Tris/EDTA buffer (pH 8.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 120 kDa

Properties

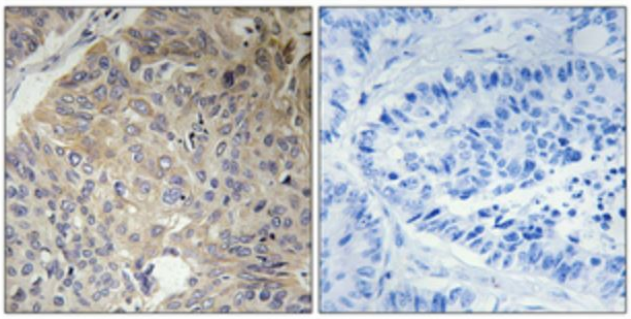
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

	cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

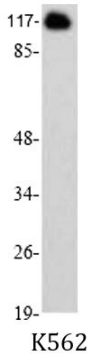
Gene Symbol	KIF11
Gene Full Name	kinesin family member 11
Background	This gene encodes a motor protein that belongs to the kinesin-like protein family. Members of this protein family are known to be involved in various kinds of spindle dynamics. The function of this gene product includes chromosome positioning, centrosome separation and establishing a bipolar spindle during cell mitosis. [provided by RefSeq, Jul 2008]
Function	Motor protein required for establishing a bipolar spindle. Blocking of KIF11 prevents centrosome migration and arrest cells in mitosis with monoastral microtubule arrays. [UniProt]
Calculated Mw	119 kDa
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). A subset of this protein primarily localized at the spindle pole is phosphorylated by NEK6 during mitosis; phosphorylation is required for mitotic function. [UniProt]
Cellular Localization	Cytoplasm. Cytoplasm, cytoskeleton, spindle pole. [UniProt]

Images



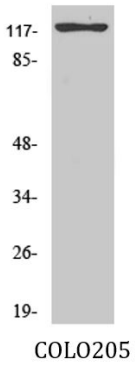
ARG66668 anti-Eg 5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue stained with ARG66668 anti-Eg 5 antibody at 1:100 dilution, overnight at 4°C. Antigen Retrieval: High-pressure and temperature Tris/EDTA buffer (pH 8.0). Negative control (right): Antibody was pre-absorbed by immunogen peptide.



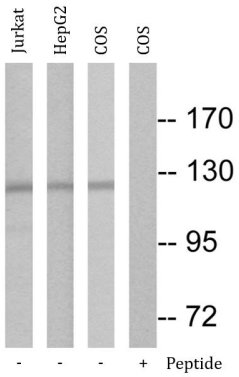
ARG66668 anti-Eg 5 antibody WB image

Western blot: K562 cell nucleus lysate stained with ARG66668 anti-Eg 5 antibody.



ARG66668 anti-Eg 5 antibody WB image

Western blot: COLO205 cell nucleus lysate stained with ARG66668 anti-Eg 5 antibody.



ARG66668 anti-Eg 5 antibody WB image

Western blot: Jurkat, HepG2 and COS cell lysates stained with ARG66668 anti-Eg 5 antibody. The lane on the right is blocked with the synthetic peptide.