

## Datasheet for ABIN1607602 **anti-KIF11 antibody**



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### 1 Image

#### Overview

Quantity:	100 µL
Target:	KIF11
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

#### Product Details

Purpose:	Eg5 Antibody
Immunogen:	Immunogen: Eg5 was prepared from whole rabbit serum produced by repeated immunizations with a truncated Eg5 construct expressed in E. coli corresponding to human Eg5 protein. Immunogen Type: Recombinant Protein
Cross-Reactivity (Details):	Anti-Eg5 is directed against the human Eg5 protein.
Characteristics:	Synonyms: rabbit anti-Eg5 antibody, Kinesin-like protein KIF11, Kinesin-5, KIF11, Kinesin-related motor protein Eg5, Thyroid receptor-interacting protein 5
Purification:	The product was prepared from monospecific antiserum by delipidation and defibrination.
Sterility:	Sterile filtered

#### Target Details

Target:	KIF11
Alternative Name:	KIF11 ( <a href="#">KIF11 Products</a> )

## Target Details

**Background:** Background: Eg5 (also known as kinesin-5 and KIF11) is a homo-tetramer which cross-links anti-parallel microtubules in the mitotic spindle to maintain spindle bipolarity. Eg5, a member of the Kinesin-5 subclass of kinesins, is a plus-end-directed tetrameric kinesin-family protein that influences the assembly and organization of the mitotic spindle, a self-assembled and dynamic microtubule-based structure that orchestrates chromosome segregation in dividing cells. Eg5 action is essential: when it is depleted from the cytoplasm of meiotically-mature *Xenopus laevis* eggs, abnormal monopolar spindles form, preventing successful division. Eg5 is expressed in all cells during mitosis and in post-mitotic neurons during development. In developing neurons pharmacological inhibition and siRNA knockdown of Eg5 results in longer axons, more branches, fewer bouts of axon retraction and the inability of growth cones to turn on contact with repulsive substrates. In migratory neurons, inhibition of Eg5 causes neurons to migrate in a random pattern and form shorter leading processes. In adult neurons, Eg5 has a similar effect on inhibiting the rate of short microtubule transport so pharmacological inhibition of adult Eg5 (i.e Monastrol) may be a potential therapeutic tool for the augmentation of adult axon regeneration.

**Gene ID:** 3799

**NCBI Accession:** [NP\\_004512](#)

**UniProt:** [P52732](#)

## Application Details

**Application Notes:** Immunohistochemistry Dilution: User Optimized  
Application Note: Eg5 antibody has been tested by western blot. For western blots expect a band of approximately 72 kDa in size corresponding to truncated kinesin-1 protein. Specific conditions for reactivity should be optimized by the end user. This antibody is suitable for use in ELISA.  
Western Blot Dilution: 1:1000  
ELISA Dilution: 1:10,000  
Other: User Optimized

**Restrictions:** For Research Use only

## Handling

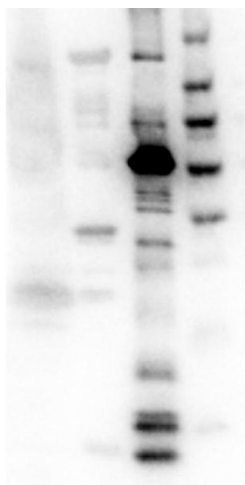
**Format:** Liquid

**Concentration:** 46 mg/mL

## Handling

Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

## Images



### Western Blotting

**Image 1.** Western Blot of Rabbit Anti-Eg-5 antibody. Lane 1: E.coli cell lysate expressing histidine tagged protein. Lane 2: Mouse brain lysate. Lane 3: Recombinant truncated Eg-5. Load: 35 µg per lane for cell lysate. 50 ng of recombinant protein Primary antibody: Eg-5 antibody at 1:1000 for overnight at 4°C. Secondary antibody: HRP rabbit secondary antibody at 1:40,000 for 60 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 120 kDa and 72 kDa for Eg5.