

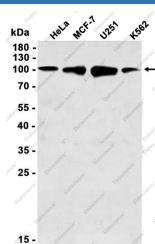
## Recombinant KIF5B Monoclonal Antibody

catalog number: **AN301889L**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

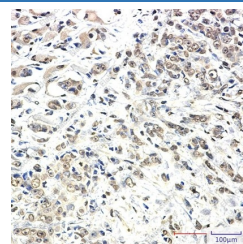
| Description  |                                                                 |
|--------------|-----------------------------------------------------------------|
| Reactivity   | Human;Mouse;Rat                                                 |
| Immunogen    | A synthetic peptide of human KIF5B                              |
| Host         | Rabbit                                                          |
| Isotype      | Rabbit IgG                                                      |
| Clone        | C111510                                                         |
| Purification | Protein A purified                                              |
| Buffer       | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |
| Applications | Recommended Dilution                                            |
| WB           | 1:1000-1:5000                                                   |
| IHC-P        | 1:100-1:200                                                     |
| ICC/IF       | 1:100-1:500                                                     |
| IP           | 1:10-1:100                                                      |
| FCM          | 1:20-1:50                                                       |

## Data

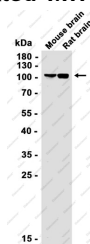


Western blot analysis of HeLa, MCF-7, U251 and K562 cell lysates using KIF5B Antibody (AN301889L) at a dilution of 1:500.

**Observed-MW:110 kDa**  
**Calculated-MW:110 kDa**

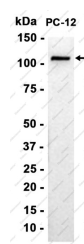


Immunohistochemical analysis of paraffin-embedded Human breast sections using KIF5B Antibody (AN301889L).



Western blot analysis of Mouse brain and Rat brain cell lysates using KIF5B Antibody (AN301889L) at a dilution of 1:1000.

**Observed-MW:110 kDa**  
**Calculated-MW:110 kDa**



Western blot analysis of PC-12 cell lysates using KIF5B Antibody (AN301889L) at a dilution of 1:3000.

**Observed-MW:110 kDa**  
**Calculated-MW:110 kDa**

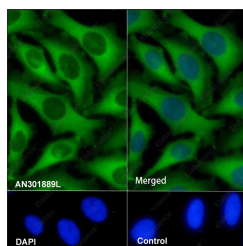
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Rev. V1.5



Immunofluorescence analysis of HeLa cells using KIF5B Antibody (AN301889L). Nuclear DNA was labeled in blue with DAPI. Control: Secondary antibody only.

## Preparation & Storage

**Storage** Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.  
**Shipping** Ice bag

## Background

KIF5B is a member of kinesin superfamily protein 5 (KIF5). KIF5 consists of three family members referred to as KIF5A, KIF5B, and KIF5C. KIF5A and KIF5C are specifically expressed in neurons whereas KIF5B is expressed ubiquitously. Targeted disruption of the kif5b gene resulted in embryonic lethality. These and other studies demonstrate that KIF5B plays an important role in the localization and distribution of major organelles, including the mitochondria and lysosome, and can contribute to autophagy. In addition, gene rearrangements involving KIF5B fusions to ALK and RET have been identified as drivers for lung cancer and other malignancies.

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