

**ASTN2 Antibody(N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19699a****Specification**

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**ASTN2 Antibody(N-term) - Product Information**

|                   |                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB,E                                                                                                                                                 |
| Primary Accession | <a href="#">O75129</a>                                                                                                                               |
| Other Accession   | <a href="#">Q80Z10</a> , <a href="#">NP_001171664.1</a> , <a href="#">NP_054729.3</a> ,<br><a href="#">NP_937829.3</a> , <a href="#">NP_937831.1</a> |
| Reactivity        | Mouse                                                                                                                                                |
| Host              | Rabbit                                                                                                                                               |
| Clonality         | Polyclonal                                                                                                                                           |
| Isotype           | Rabbit IgG                                                                                                                                           |
| Calculated MW     | 148243                                                                                                                                               |
| Antigen Region    | 220-248                                                                                                                                              |

**ASTN2 Antibody(N-term) - Additional Information****Gene ID** 23245**Other Names**

Astrotactin-2, ASTN2, KIAA0634

**Target/Specificity**

This ASTN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 220-248 amino acids from the N-terminal region of human ASTN2.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ASTN2 Antibody(N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ASTN2 Antibody(N-term) - Protein Information****Name** ASTN2

**Synonyms** KIAA0634

**Function** Mediates recycling of the neuronal cell adhesion molecule ASTN1 to the anterior pole of the cell membrane in migrating neurons. Promotes ASTN1 internalization and intracellular transport of endocytosed ASTN1 (By similarity). Selectively binds inositol-4,5- biphosphate, inositol-3,4,5-trisphosphate and inositol-1,3,4,5- tetrakisphosphate, suggesting it is recruited to membranes that contain lipids with a phosphoinositide headgroup (Ref.6).

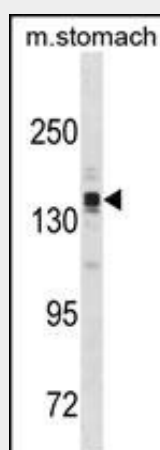
**Cellular Location**

Membrane {ECO:0000250|UniProtKB:Q80Z10}; Multi- pass membrane protein {ECO:0000250|UniProtKB:Q80Z10}. Perikaryon {ECO:0000250|UniProtKB:Q80Z10}. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q80Z10}. Early endosome {ECO:0000250|UniProtKB:Q80Z10}. Late endosome {ECO:0000250|UniProtKB:Q80Z10}. Cytoplasmic vesicle, clathrin-coated vesicle {ECO:0000250|UniProtKB:Q80Z10}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:Q80Z10}. Note=Integral membrane protein not detected at the cell membrane. Detected in cytoplasmic vesicles in the cell cortex, close to the anterior pole of migrating neurons. Detected at the base of the leading process in migrating neurons {ECO:0000250|UniProtKB:Q80Z10}

**ASTN2 Antibody(N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ASTN2 Antibody(N-term) - Images**

ASTN2 Antibody (N-term) (Cat. #AP19699a) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the ASTN2 antibody detected the ASTN2 protein (arrow).

**ASTN2 Antibody(N-term) - Background**

This gene encodes a protein that is expressed in the brain

and may function in neuronal migration, based on functional studies of the related astrotactin 1 gene in human and mouse. A deletion at this locus has been associated with schizophrenia. Multiple transcript variants encoding different proteins have been found for this locus.

#### **ASTN2 Antibody(N-term) - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Adkins, D.E., et al. Mol. Psychiatry (2010) In press :  
Lesch, K.P., et al. J Neural Transm 115(11):1573-1585(2008)  
Vrijenhoek, T., et al. Am. J. Hum. Genet. 83(4):504-510(2008)