

Datasheet for ABIN863129  
**anti-SHANK3 antibody (AA 840-857)**[Go to Product page](#)

## 4 Images

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µg   |
| Target:              | SHANK3   |
| Binding Specificity: | AA 840-857   |
| Reactivity:          | Rat  |
| Host:                | Mouse  |
| Clonality:           | Monoclonal   |
| Conjugate:           | This SHANK3 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA) |

## Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | Synthetic peptide amino acids 840-857 of rat Shank3             |
| Clone:            | S69   |
| Isotype:          | IgG2b   |
| Specificity:      | Detects ~190 kDa. No cross-reactivity against Shank1 or Shank2. |
| Cross-Reactivity: | Human, Mouse, Rat   |
| Purification:     | Protein G Purified  |

## Target Details

|         |        |
|---------|--------|
| Target: | SHANK3 |
|---------|--------|

## Target Details

|                   |  |
|-------------------|--|
| Alternative Name: | SHANK3 ( <a href="#">SHANK3 Products</a> )   |
| Background:       | Shank proteins make up a family of scaffold proteins identified through their interaction with a variety of membrane and cytoplasmic proteins (1). Shank proteins at postsynaptic sites of excitatory synapses play roles in signal transmission into the postsynaptic neuron. Shank proteins are also crucial in receptor tyrosine kinase signaling, specifically, Shank3 can mediate Erk-MAPK and P13K signaling which is crucial for tubule formation (2). Shank3 is also one of the latest genes to be associated with autism. A mutation of a single copy of Shank3 on chromosome 22q13 can result in language and/or social communication disorders (3). |
| Gene ID:          | 59312  |
| NCBI Accession:   | <a href="#">NP_067708</a>  |
| UniProt:          | <a href="#">Q9JLU4</a>   |
| Pathways:         | <a href="#">Synaptic Membrane</a> , <a href="#">Tube Formation</a> , <a href="#">Regulation of long-term Neuronal Synaptic Plasticity</a>  |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | <ul style="list-style-type: none"><li>• WB (1:1000)</li><li>• IHC (1:100)</li><li>• ICC/IF (1:100)</li><li>• optimal dilutions for assays should be determined by the user.</li></ul>                                  |
| Comment:           | 1 µg/ml of ABIN863129 was sufficient for detection of Shank3 in 10 µg COS cell lysate transiently transfected with Shank3 by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody. |
| Restrictions:      | For Research Use only  |

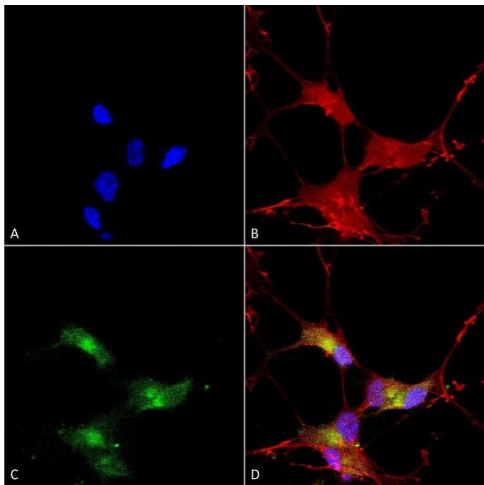
## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Concentration:     | 1 mg/mL  |
| Buffer:            | PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated                              |
| 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:           | -20 °C   |

Handling

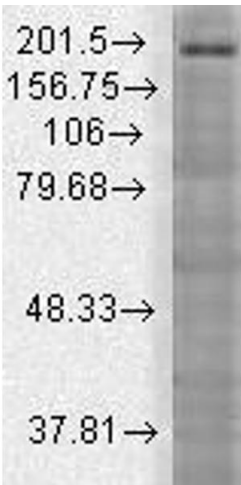
Storage Comment: -20°C

Images



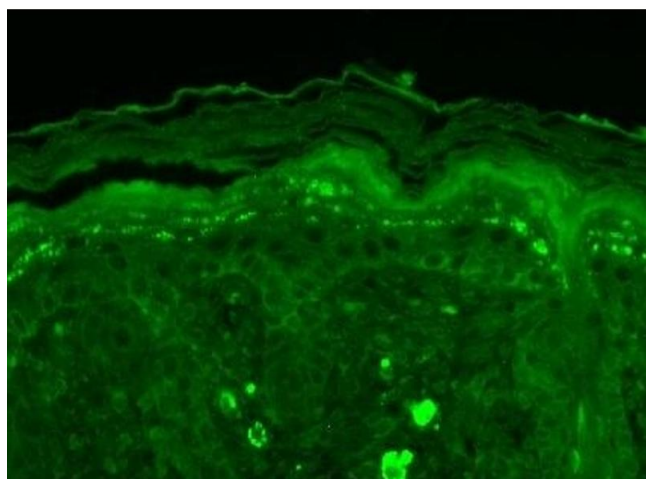
Immunocytochemistry

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK3 Monoclonal Antibody, Clone S69-46 (ABIN863129). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-SHANK3 Monoclonal Antibody (ABIN863129) at 1:50 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) SHANK3 Antibody (D) Composite.



Western Blotting

**Image 2.** Shank3 Brain Membrane Western Blotting.



#### Immunohistochemistry

**Image 3.** Immunohistochemistry analysis using Mouse Anti-SHANK3 Monoclonal Antibody, Clone S69-46 (ABIN863129). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-SHANK3 Monoclonal Antibody (ABIN863129) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Early stages of filaggrin-like and dermal staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN863129.