

**GRINA Antibody**  
**Catalog # ASC11587****Specification**

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**GRINA Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q7Z429</a>
Other Accession	<a href="#">NP_001009184</a> , <a href="#">57165375</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 41 kDa KDa
Application Notes	GRINA antibody can be used for detection of GRINA by Western blot at 1 - 2 µg/mL.

**GRINA Antibody - Additional Information**

Gene ID 2907

**Target/Specificity**

GRINA; GRINA antibody is predicted to not cross-react with other members of the TMBIM family.

**Reconstitution & Storage**

GRINA antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

GRINA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**GRINA Antibody - Protein Information****Name** GRINA**Synonyms** LFG1, NMDARA1, TMBIM3**Function**

Potential apoptotic regulator.

**Cellular Location**

Membrane; Multi-pass membrane protein

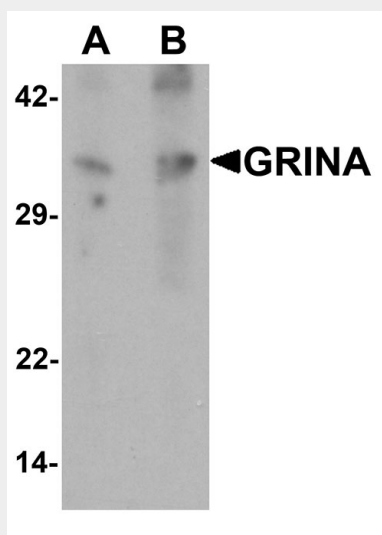
**GRINA Antibody - Protocols**

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](#)

## GRINA Antibody - Images



Western blot analysis of GRINA in human testis tissue lysate with GRINA antibody at (A) 1 and (B) 2  $\mu\text{g/mL}$ .

## GRINA Antibody - Background

GRINA Antibody: The transmembrane BAX inhibitor motif (TMBIM) family of proteins includes the founder member TMBIM6/BI-1, TMBIM1/RECS1 (responsive to centrifugal force and shear stress gene 1 protein), TMBIM2/LFG (life guard), TMBIM3/GRINA (glutamate receptor ionotropic NMDA protein 1), TMBIM4/GAAP (Golgi anti-apoptotic-associated protein), and TMBIM5/GHTIM (growth hormone-inducible transmembrane protein). They are highly conserved in mammals and zebrafish and contain a conserved BAX inhibitor-1 motif. GRINA is expressed in the brain and is a potential apoptotic regulator.

## GRINA Antibody - References

Yamaji T, Nishikawa K and Hanada K et al. Transmembrane BAX inhibitor motif containing (TMBIM) family proteins perturbs a trans-Golgi network enzyme, Gb3 synthase, and reduces Gb3 biosynthesis. *J. Biol. Chem.* 2010; 285:35505-18.

Nielsen JA, Chambers MA, Romm E, et al. Mouse transmembrane BAX inhibitor motif 3 (Tmbim3) encodes a 38 kDa transmembrane protein expressed in the central nervous system. *Mol. Cell. Biochem.* 2011; 357:73-81.

Rojas-Rivera D, Armisén R, Colombo A, et al. TMBIM3/GRINA is a novel unfolded protein response (UPR) target gene that controls apoptosis through the modulation of ER calcium homeostasis. *Cell Death Differ.* 2012; 19:1013-26.