

# GRINA Antibody

Catalog # ASC11587

## Product Information

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|-----------------------|--|
| 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         | 41203  |
| Concentration (mg/ml) | 1 mg/mL  |
| Conjugate             | Unconjugated   |
| Application Notes     | GRINA antibody can be used for detection of GRINA by Western blot at 1 - 2 $\mu$ g/mL. |

## Additional Information

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|--------------------------|---|
| Gene ID                  | 2907  |
| Other Names              | Protein lifeguard 1, Glutamate [NMDA] receptor-associated protein 1, NMDA receptor glutamate-binding subunit, Putative MAPK-activating protein PM02, Transmembrane BAX inhibitor motif-containing protein 3, GRINA, LFG1, NMDARA1, TMBIM3 |
| 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.  |

## Protein Information

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|-------------------|---------------------------------------|
| Name              | GRINA                                 |
| Synonyms          | LFG1, NMDARA1, TMBIM3                 |
| Function          | Potential apoptotic regulator.        |
| Cellular Location | Membrane; Multi-pass membrane protein |

## Background

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**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.

## References

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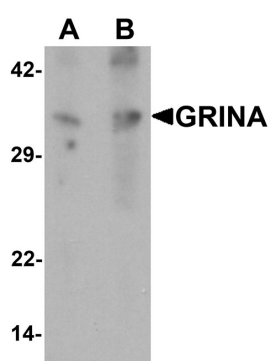
Yamaji T, Nishikawa K and Hanada K et al. Transmembrane BAX inhibitor motif containing (TMBIM) family proteins perturbs a trans-Golgi network enzyme, Gb3 synthase, and reduces Gb3 biosynthesis. *J. Biol. Chem.* 2010; 285:35505-18.

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, Armisen 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.

## Images

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.