

# Anti-TMEM132A Antibody

0903-8



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 55 kDa

**Description:** TMEM132A is a member of TMEM132 family. Total of five members, namely TMEM132 A, B, C, D, E, were found. TMEM132A, also known as HSPA5-binding protein 1, may play a role in embryonic and postnatal development of the brain and regulate cAMP-induced GFAP gene expression via STAT3 phosphorylation.

**Immunogen:** Synthetic peptide within Human TMEM132A aa 204-253 / 1,023.

**Positive control:** Mouse brain tissue lysate, rat brain tissue lysate, MCF-7 cell lysate, Hela, SHG-44, mouse brain tissue.

**Subcellular location:** Endoplasmic reticulum. Golgi apparatus. Membrane.

**Database links:** SwissProt: Q24JP5 Human | Q922P8 Mouse | Q80WF4 Rat

## Recommended Dilutions:

<b>WB</b>	1:500-1:1,000
<b>IF-Cell</b>	1:50-1:200
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:200

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

**Purity:** Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images

**Fig1:** Western blot analysis of TMEM132A on different lysates with Rabbit anti-TMEM132A antibody (0903-8) at 1/1,000 dilution.

Lane 1: Mouse brain tissue lysate

Lane 2: Rat brain tissue lysate

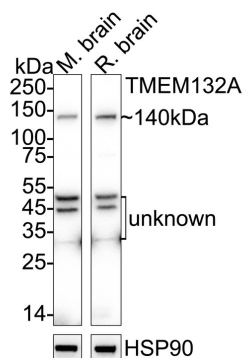
Lysates/proteins at 40 µg/Lane.

Predicted band size: 55 kDa

Observed band size: 140 kDa

Exposure time: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (0903-8) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of TMEM132A on different lysates with Rabbit anti-TMEM132A antibody (0903-8) at 1/500 dilution.

Lane 1: MCF-7 cell lysate

Lane 2: Mouse brain tissue lysate (20 µg/Lane)

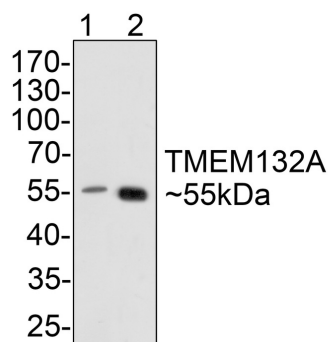
Lysates/proteins at 10 µg/Lane.

Predicted band size: 110/44/55 kDa

Observed band size: 55 kDa

Exposure time: 2 minutes;

10% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (0903-8) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

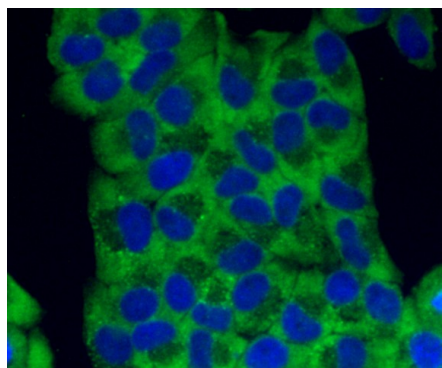
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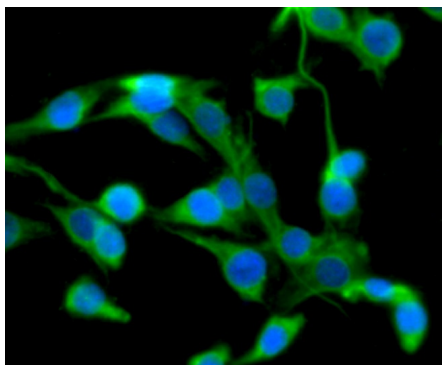
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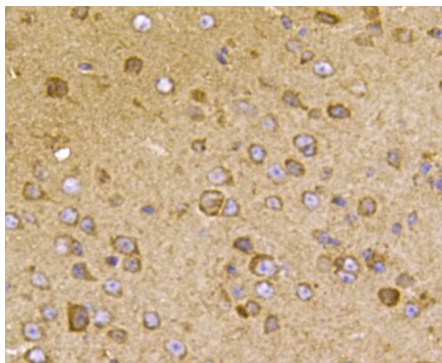
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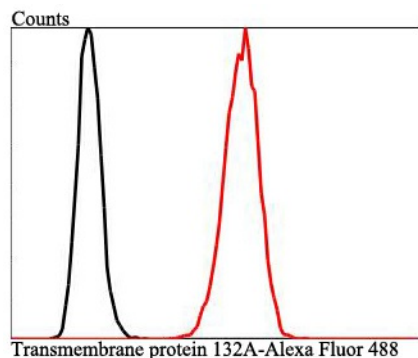
**Fig3:** ICC staining Transmembrane protein 132A in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig4:** ICC staining Transmembrane protein 132A in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig5:** Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Transmembrane protein 132A antibody. Counter stained with hematoxylin.



**Fig6:** Flow cytometric analysis of SH-SY-5Y cells with Transmembrane protein 132A antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Zeng H et al. TMEM132A regulates mouse hindgut morphogenesis and caudal development. Development. 2023 Jul
2. Li B et al. TMEM132A ensures mouse caudal neural tube closure and regulates integrin-based mesodermal migration. Development. 2022 Sep

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