

# Anti-SUN2 Antibody [JG39-52]

## ET7108-92



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, FC, IF-Cell, IF-Tissue
<b>Molecular Wt:</b>	80 kDa
<b>Clone number:</b>	JG39-52

**Description:** SUN2 (sad1/unc-84 protein-like 2), also known as UNC84B (unc-84 homolog B), FRIGG, KIAA0668 or RAB5IP, is a 717 amino acid single-pass membrane protein that contains one SUN domain and localizes to the membrane of both the nucleus and the endosome. Widely expressed in a variety of tissues, including lung, muscle and heart, SUN2 interacts with Rab 5A and may play a role in homotypic endosome fusion. The gene encoding SUN2 maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, Neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia Chromosome and the subsequent production of the novel fusion protein BCR-Abl, a potent cell proliferation activator found in several types of leukemias.

**Immunogen:** Recombinant protein within Human SUN2 aa 591-717 / 717.

**Positive control:** A431 cell lysate, rat epididymis tissue, human tonsil tissue, human colon tissue, human prostate cancer tissue, mouse liver tissue, SK-Br-3.

**Subcellular location:** Endosome. Nucleus inner membrane.

**Database links:** SwissProt: Q9UH99 Human | Q8BJS4 Mouse

### Recommended Dilutions:

<b>WB</b>	1:500-1:2,000
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:100
<b>IF-Cell</b>	1:50-1:100
<b>IF-Tissue</b>	1:50-1:100

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

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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## Images

**Fig1:** Western blot analysis of SUN2 on A431 cell lysates with Rabbit anti-SUN2 antibody (ET7108-92) at 1/500 dilution.

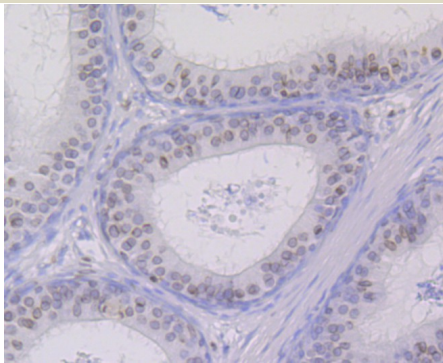
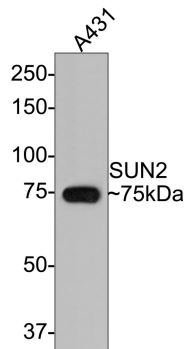
Lysates/proteins at 10 µg/Lane.

Predicted band size: 80 kDa  
Observed band size: 75 kDa

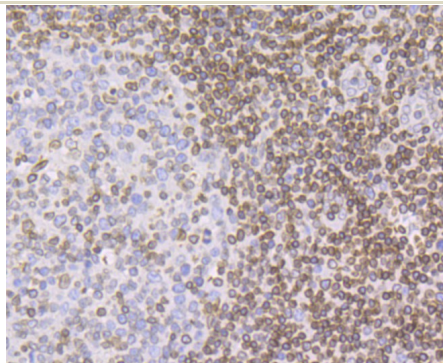
Exposure time: 2 minutes;

8% SDS-PAGE gel.

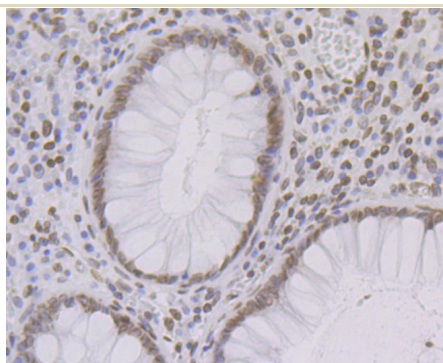
Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET7108-92) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.



**Fig2:** Immunohistochemical analysis of paraffin-embedded rat epididymis tissue using anti-SUN2 antibody. Counter stained with hematoxylin.



**Fig3:** Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-SUN2 antibody. Counter stained with hematoxylin.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-SUN2 antibody. Counter stained with hematoxylin.

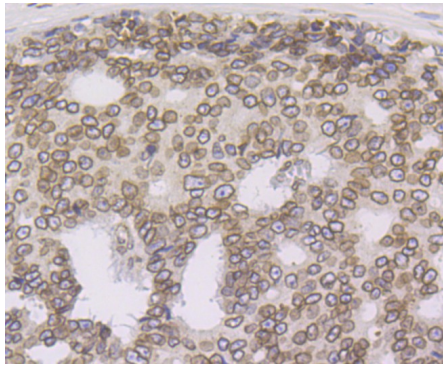
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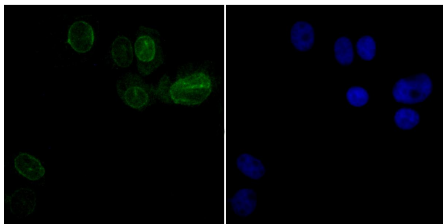
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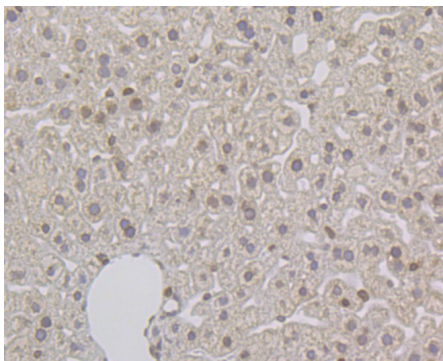
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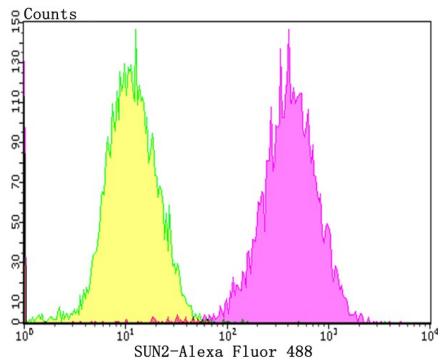
**Fig5:** Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue using anti-SUN2 antibody. Counter stained with hematoxylin.



**Fig6:** ICC staining SUN2 (green) in SK-Br-3 cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig7:** Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-SUN2 antibody. Counter stained with hematoxylin.



**Fig8:** Flow cytometric analysis of SK-Br-3 cells with SUN2 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). 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. Hodzic D M et al. Sun2 is a novel mammalian inner nuclear membrane protein. J Biol Chem 279:25805-25812 (2004).
2. Wang Q et al. Characterization of the structures involved in localization of the SUN proteins to the nuclear envelope and the centrosome. DNA Cell Biol 25:554-562 (2006).

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