

# Anti-WLS Antibody [A7C2]

HA600060



<b>Product Type:</b>	Mouse monoclonal IgG2b, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell
<b>Molecular Wt:</b>	Predicted band size: 62 kDa
<b>Clone number:</b>	A7C2

**Description:** Regulates Wnt proteins sorting and secretion in a feedback regulatory mechanism. This reciprocal interaction plays a key role in the regulation of expression, subcellular location, binding and organelle-specific association of Wnt proteins. Plays also an important role in establishment of the anterior-posterior body axis formation during development (By similarity).

**Immunogen:** Recombinant protein within human WLS aa 50-200/541.

**Positive control:** SH-SY5Y cell lysate, Hela cell lysate, mouse lung tissue lysate, rat brain tissue lysate, Hela, SH-SY5Y.

**Subcellular location:** Golgi apparatus membrane, Golgi apparatus membrane, Early endosome membrane, Endoplasmic reticulum membrane, Cell membrane, Cytoplasmic vesicle membrane.

**Database links:** SwissProt: Q5T9L3 Human | Q6D1D7 Mouse | Q6P689 Rat

**Recommended Dilutions:**

<b>WB</b>	1:5,000-1:20,000
<b>IF-Cell</b>	1:100

**Storage Buffer:** PBS (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.

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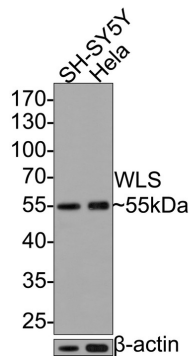
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## Images



**Fig1:** Western blot analysis of WLS on different lysates with Mouse anti-WLS antibody (HA600060) at 1/20,000 dilution.

Lane 1: SH-SY5Y cell lysate

Lane 2: HeLa cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 62 kDa

Observed band size: 55 kDa

Exposure time: 30 seconds;

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 (HA600060) at 1/20,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:100,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of WLS on different lysates with Mouse anti-WLS antibody (HA600060) at 1/5,000 dilution.

Lane 1: Mouse lung tissue lysate

Lane 2: Rat brain tissue lysate

Lysates/proteins at 20 µg/Lane.

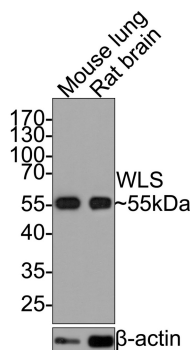
Predicted band size: 62 kDa

Observed band size: 55 kDa

Exposure time: 30 seconds;

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 (HA600060) at 1/5,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:100,000 dilution was used for 1 hour at room temperature.



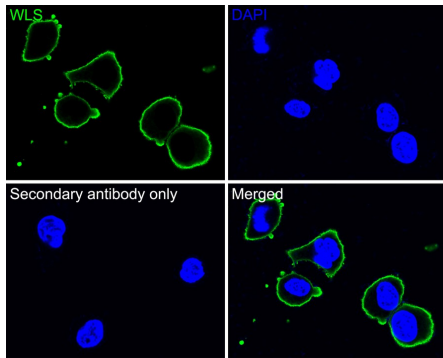
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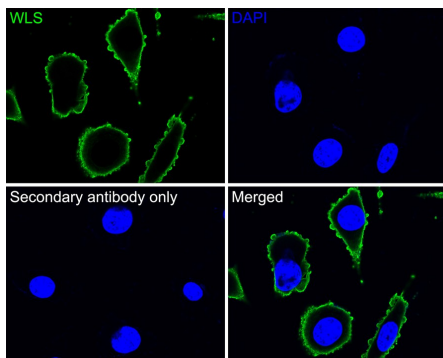
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**Fig3:** Immunocytochemistry analysis of HeLa cells labeling WLS with Mouse anti-WLS antibody (HA600060) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 30 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 2% BSA for 30 minutes at room temperature. Cells were then incubated with Mouse anti-WLS antibody (HA600060) at 1/100 dilution in 2% BSA overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



**Fig4:** Immunocytochemistry analysis of SH-SY5Y cells labeling WLS with Mouse anti-WLS antibody (HA600060) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 30 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 2% BSA for 30 minutes at room temperature. Cells were then incubated with Mouse anti-WLS antibody (HA600060) at 1/100 dilution in 2% BSA overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

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

### Background References

1. Zheng D. et. al. Wntless (Wls): A Prognostic Index for Progression and Patient Survival of Breast Cancer. *Oncotargets Ther.* 2020 Dec
2. Cheng J. et. al. Conditional deletion of Wntless in granulosa cells causes impaired corpora lutea formation and subfertility. *Aging (Albany NY).* 2020 Dec

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