

# Anti-Kindlin 2 Antibody [A10G12]

HA601343



<b>Product Type:</b>	Mouse monoclonal IgG2a, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, IP
<b>Molecular Wt:</b>	Predicted band size: 78 kDa
<b>Clone number:</b>	A10G12

**Description:** Fermitin family homolog 2 (FERMT2) also known as pleckstrin homology domain-containing family C member 1 (PLEKHC1) or kindlin-2 is a protein that in humans is encoded by the FERMT2 gene. Kindlin-2 is the first of the kindlin protein to be discovered in 1994. It was detected in a screen for epidermal growth factor (EGF)-induced mRNAs and initially named mitogen-inducible gene 2 (Mig-2) protein. FERMT2 is a component of extracellular matrix structures in mammalian cells and is required for proper control of cell shape change. A major task of kindlins is to regulate the activation of integrins. FERMT2 has been shown to interact with FBLIM1.

**Immunogen:** Synthetic peptide within human Kindlin 2 aa 301-350 / 680.

**Positive control:** MDA-MB-231 cell lysate, Saos-2 cell lysate, mouse heart tissue lysate, mouse lung tissue lysate, rat heart tissue lysate, rat lung tissue lysate, MDA-MB-231.

**Subcellular location:** Cytoplasm, Nucleus, Cell surface.

**Database links:** SwissProt: Q96AC1 Human | Q8CIB5 Mouse  
Entrez Gene: 289992 Rat

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:100
<b>IP</b>	1-2µg/sample

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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

**Purity:** Protein A affinity purified.

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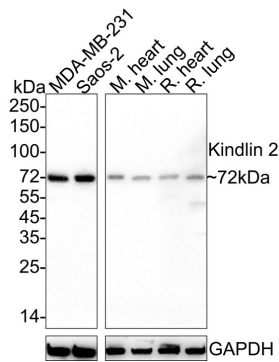
Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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## Images



**Fig1:** Western blot analysis of Kindlin 2 on different lysates with Mouse anti-Kindlin 2 antibody (HA601343) at 1/1,000 dilution.

Lane 1: MDA-MB-231 cell lysate (20 µg/Lane)  
 Lane 2: Saos-2 cell lysate (20 µg/Lane)  
 Lane 3: Mouse heart tissue lysate (40 µg/Lane)  
 Lane 4: Mouse lung tissue lysate (40 µg/Lane)  
 Lane 5: Rat heart tissue lysate (40 µg/Lane)  
 Lane 6: Rat lung tissue lysate (40 µg/Lane)

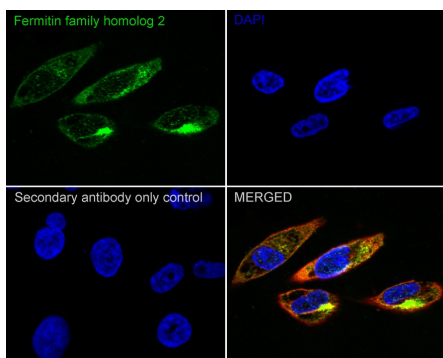
Predicted band size: 78 kDa  
 Observed band size: 72 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA601343) at 1/1,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Anti-Mouse IgG for IP Nano-secondary antibody (NBI02H) at 1/5,000 dilution was used for 1 hour at room temperature.

**Fig2:** Immunocytochemistry analysis of MDA-MB-231 cells labeling Kindlin 2 with Mouse anti-Kindlin 2 antibody (HA601343) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-Kindlin 2 antibody (HA601343) at 1/100 dilution in 1% BSA in PBST 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.

beta Tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.

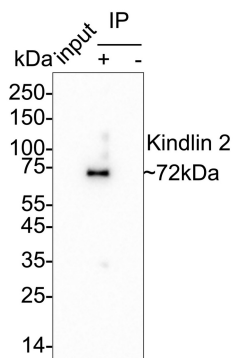
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**Fig3:** Kindlin 2 was immunoprecipitated from 0.2 mg MDA-MB-231 cell lysate with HA601343 at 2  $\mu$ g/10  $\mu$ l beads. Western blot was performed from the immunoprecipitate using HA601343 at 1/2,000 dilution. Anti-Mouse IgG for IP Nano-secondary antibody (NBI02H) at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: MDA-MB-231 cell lysate (input)

Lane 2: HA601343 IP in MDA-MB-231 cell lysate

Lane 3: Mouse IgG instead of HA601343 in MDA-MB-231 cell lysate

Blocking/Dilution buffer: 5% NFDM/TBST

Exposure time: 38 seconds; ECL: K1801

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

### Background References

1. Gao H et al. Kindlin-2 haploinsufficiency protects against fatty liver by targeting Foxo1 in mice. *Nat Commun.* 2022 Feb
2. Wu X et al. Kindlin-2 preserves integrity of the articular cartilage to protect against osteoarthritis. *Nat Aging.* 2022 Apr

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