

# Anti-ELKS Antibody [PSH17-33] - BSA and Azide free

## HA751621



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 128 kDa
<b>Clone number:</b>	PSH17-33

**Description:** ELKS/RAB6-interacting/CAST family member 1 is a protein that in humans is encoded by the ERC1 gene. The name ELKS is derived from "protein rich in the amino acids E, L, K and S". The protein encoded by this gene is a member of a family of RIM-binding proteins. RIMs are active zone proteins that regulate neurotransmitter release. This gene has been found fused to the receptor-type tyrosine kinase gene RET by gene rearrangement due to the translocation t(10;12)(q11;p13). Multiple transcript variants encoding different isoforms have been found for this gene. ELKS has been reported to direct vesicles with RAB6A to melanosomes.

**Immunogen:** Recombinant protein within human ELKS aa 1-450.

**Positive control:** HeLa cell lysate, Huh7 cell lysate, U-87 MG cell lysate, NIH/3T3 cell lysate, Neuro-2a cell lysate, PC-12 cell lysate, C6 cell lysate, Mouse brain tissue lysate, Mouse testis tissue lysate, Mouse kidney tissue lysate, Rat brain tissue lysate, Rat testis tissue lysate, Rat kidney tissue lysate.

**Subcellular location:** Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, Membrane, Golgi apparatus membrane, Presynaptic cell membrane, Cell projection, podosome.

**Database links:** SwissProt: Q8IUD2 Human | Q99MI1 Mouse | Q811U3 Rat

**Recommended Dilutions:**

**WB** 1:5,000

**Storage Buffer:** 1\*PBS (pH7.4).

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

**Purity:** Protein A affinity purified.

Hangzhou Huan Biotechnology Co., Ltd.

Orders:0086-571-88062880

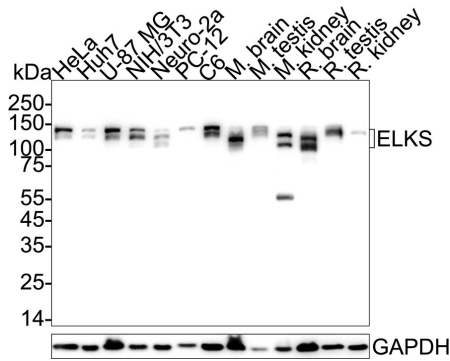
Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn

## Images

**Fig1:** Western blot analysis of ELKS on different lysates with Rabbit anti-ELKS antibody (HA751621) at 1/5,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)  
 Lane 2: Huh7 cell lysate (20 µg/Lane)  
 Lane 3: U-87 MG cell lysate (20 µg/Lane)  
 Lane 4: NIH/3T3 cell lysate (20 µg/Lane)  
 Lane 5: Neuro-2a cell lysate (20 µg/Lane)  
 Lane 6: PC-12 cell lysate (20 µg/Lane)  
 Lane 7: C6 cell lysate (20 µg/Lane)  
 Lane 8: Mouse brain tissue lysate (40 µg/Lane)  
 Lane 9: Mouse testis tissue lysate (40 µg/Lane)  
 Lane 10: Mouse kidney tissue lysate (40 µg/Lane)  
 Lane 11: Rat brain tissue lysate (40 µg/Lane)  
 Lane 12: Rat testis tissue lysate (40 µg/Lane)  
 Lane 13: Rat kidney tissue lysate (40 µg/Lane)

Predicted band size: 128 kDa

Observed band size: 120/130 kDa

Exposure time: 20 seconds; 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 (HA751621) at 1/5,000 dilution was used in primary antibody dilution (K1803) 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.

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

### Background References

1. Ghelani T et al. Interactive nanocluster compaction of the ELKS scaffold and Cacophony Ca(2+) channels drives sustained active zone potentiation. *Sci Adv.* 2023 Feb
2. Liang M et al. Oligomerized liprin-alpha promotes phase separation of ELKS for compartmentalization of presynaptic active zone proteins. *Cell Rep.* 2021 Mar

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn