

# Anti-ApoER2 Antibody

## ER1803-10



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, IF-Tissue
<b>Molecular Wt:</b>	Predicted band size: 102 kDa

**Description:** Cell surface receptor for Reelin (RELN) and apolipoprotein E (apoE)-containing ligands. LRP8 participates in transmitting the extracellular Reelin signal to intracellular signaling processes, by binding to DAB1 on its cytoplasmic tail. Reelin acts via both the VLDL receptor (VLDLR) and LRP8 to regulate DAB1 tyrosine phosphorylation and microtubule function in neurons. LRP8 has higher affinity for Reelin than VLDLR. LRP8 is thus a key component of the Reelin pathway which governs neuronal layering of the forebrain during embryonic brain development. Binds the endoplasmic reticulum resident receptor-associated protein (RAP). Binds dimers of beta 2-glycoprotein I and may be involved in the suppression of platelet aggregation in the vasculature. Highly expressed in the initial segment of the epididymis, where it affects the functional expression of clusterin and phospholipid hydroperoxide glutathione peroxidase (PHGPx), two proteins required for sperm maturation. May also function as an endocytic receptor.

**Immunogen:** Recombinant protein within Human APOER2 aa 494-722 / 963.

**Subcellular location:** Cell membrane. Secreted.

**Database links:** SwissProt: Q14114 Human | Q924X6 Mouse  
Entrez Gene: 362558 Rat

**Recommended Dilutions:**

<b>WB</b>	1:500-2000
<b>IHC-P</b>	1:100-500
<b>IF-tissue</b>	1:100-500

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Purity:** Protein A affinity purified.

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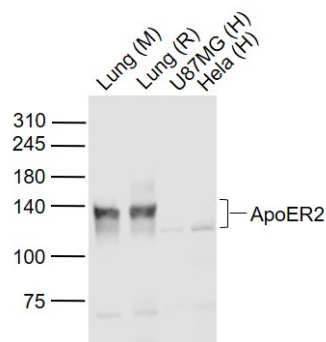
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Technical:0086-571-89986345

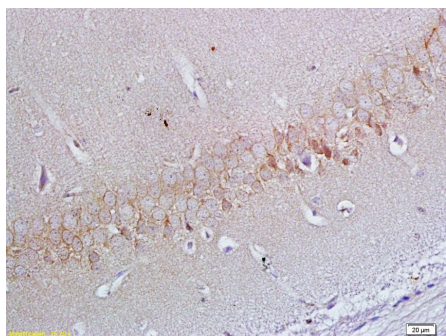
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## Images



**Fig1:** Sample: Lane 1: Lung (Mouse) Lysate at 40 ug Lane 2: Lung (Rat) Lysate at 40 ug Lane 3: U87MG (Human) Lysate at 40 ug Lane 4: HeLa (Human) Lysate at 40 ug Primary: Anti-ApoER2 (ER1803-10) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 170/130 kD Observed band size: 130/125 kD



**Fig2:** Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-ApoER2 Polyclonal Antibody, Unconjugated(ER1803-10) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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

## Background References

1. Andersen O M et al. Differential binding of ligands to the apolipoprotein E receptor 2. *Biochemistry* 42:9355-9364 (2003).
2. Li X et al. Domains of apoE required for binding to apoE receptor 2 and to phospholipids: implications for the functions of apoE in the brain. *Biochemistry* 42:10406-10417 (2003).

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