

## Product datasheet for **TA336283**

### **ApoER2 (LRP8) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ICC/IF, WB
<b>Recommended Dilution:</b>	Immunocytochemistry/ Immunofluorescence: 5 ug/ml, Western Blot: 2 ug/ml
<b>Reactivity:</b>	Human, Mouse, Bovine, Chicken
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	A synthetic peptide made to a C-terminal portion of the human ApoER2 protein sequence (between residues 800-900). [UniProt# Q14114]
<b>Formulation:</b>	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Immunogen affinity purified
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	LDL receptor related protein 8
<b>Database Link:</b>	<a href="#">NP_059992</a> <a href="#">Entrez Gene 16975 Mouse</a> <a href="#">Entrez Gene 7804 Human</a> <a href="#">Q14114</a>



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**Background:**

ApoER2 (apolipoprotein E receptor 2 or LDL receptor related protein 8) is a member of LDL receptor (LDLR) family and it acts as a cell surface receptor for Reelin (RELN) and apolipoprotein E (apoE)-containing ligands. ApoER2 facilitates extracellular RELN signal transduction to intracellular signaling processes, mainly through binding with DAB1 on its cytoplasmic tail. RELN acts via both VLDLR and ApoER2 to regulate tyrosine phosphorylation mediated DAB1 activation and microtubule function in neuronal cells. ApoER2 possess higher affinity for RELN compared to VLDLR and is therefore, a key player in Reelin pathway that governs forebrain's neuronal layering during prenatal brain development. ApoER2 associates with ER resident receptor-associated protein (RAP) as well as with dimers of beta 2-glycoprotein I. In the vasculature, ApoER2 has been suggested to implicate in suppressing platelet aggregation. Moreover, ApoER2 is highly expressed in epididymis (initial segment), where it affects the functional expression of clusterin and phospholipid hydroperoxide glutathione peroxidase (PHGPx), which are required for sperm maturation. ApoER2 also function as an endocytic receptor and defective ApoER2 have been linked to myocardial infarction type 1 (MCI1).

**Synonyms:**

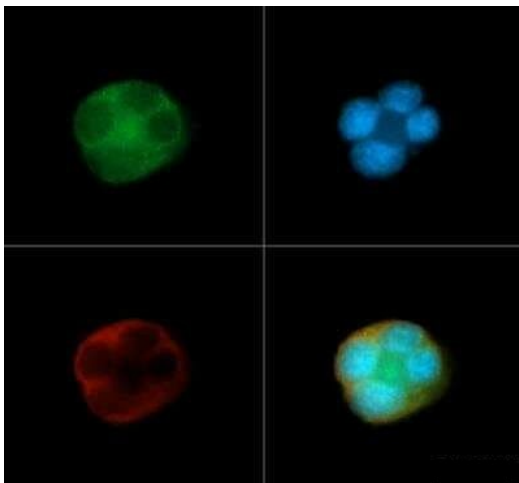
APOER2; HSZ75190; LRP-8; MCI1

**Note:**

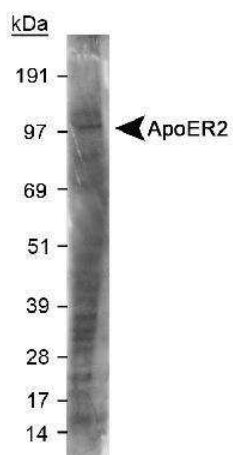
This ApoER2 antibody is useful in Western blot, where a band is seen at ~106 kDa representing the membrane form of ApoER2. A larger ~130 kDa band may also be seen, representing the glycosylated form of ApoER2.

**Protein Families:**

Druggable Genome, Secreted Protein, Transmembrane

**Product images:**

Immunocytochemistry/Immunofluorescence:  
Apolipoprotein E R2/ApoE R2 Antibody TA336283  
- Antibody was tested in Neuro-2a cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



Western Blot: Apolipoprotein E R2/ApoE R2  
Antibody TA336283 - Detection of ApoER2 in  
mouse brain membrane lysate using NB 100-  
2217. ECL exposure, 1 min.