

**LRP4 Antibody (Internal)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS14244****Specification**

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**LRP4 Antibody (Internal) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O75096</a>
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Pig, Chicken, Horse, Xenopus, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	212kDa KDa

**LRP4 Antibody (Internal) - Additional Information****Gene ID** 4038**Other Names**

Low-density lipoprotein receptor-related protein 4, LRP-4, Multiple epidermal growth factor-like domains 7, LRP4, KIAA0816, LRP10, MEGF7

**Target/Specificity**

Human LRP4.

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

LRP4 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**LRP4 Antibody (Internal) - Protein Information****Name** LRP4**Synonyms** KIAA0816, LRP10, MEGF7**Function**

Mediates SOST-dependent inhibition of bone formation. Functions as a specific facilitator of SOST-mediated inhibition of Wnt signaling. Plays a key role in the formation and the maintenance of the neuromuscular junction (NMJ), the synapse between motor neuron and skeletal muscle. Directly binds AGRIN and recruits it to the MUSK signaling complex. Mediates the AGRIN-induced phosphorylation of MUSK, the kinase of the complex. The activation of MUSK in myotubes induces the formation of NMJ by regulating different processes including the transcription of specific genes and the clustering of AChR in the postsynaptic membrane. Alternatively, may be involved in the negative regulation of the canonical Wnt signaling pathway, being able to antagonize the LRP6-mediated activation of this pathway. More generally, has been proposed to function as a cell

surface endocytic receptor binding and internalizing extracellular ligands for degradation by lysosomes. May play an essential role in the process of digit differentiation (By similarity).

#### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q8VI56}; Single-pass type I membrane protein

#### Tissue Location

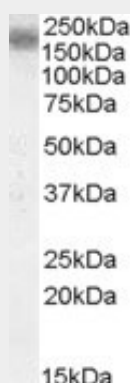
Expressed in bone; present in osteoblasts and osteocytes. No expression is observed in osteoclast. Expressed in several regions of the brain.

### LRP4 Antibody (Internal) - Protocols

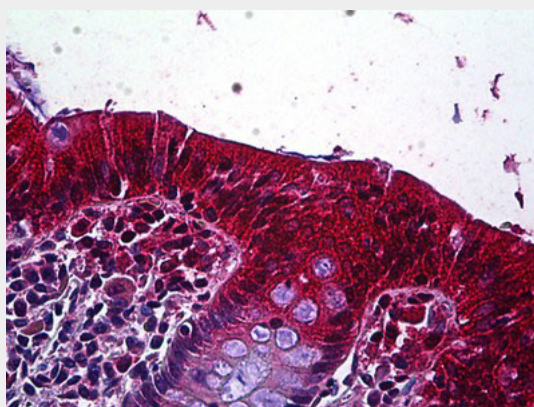
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### LRP4 Antibody (Internal) - Images



LRP4 antibody (0.1 ug/ml) staining of human cerebral cortex lysate (35 ug protein/ml in RIPA buffer).



Anti-LRP4 antibody IHC of human colon, epithelium.

**LRP4 Antibody (Internal) - Background**

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**LRP4 Antibody (Internal) - References**

Ishikawa K.,et al.Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.  
Nakayama M.,et al.Genomics 51:27-34(1998).  
Taylor T.D.,et al.Nature 440:497-500(2006).  
Li Y.,et al.Am. J. Hum. Genet. 86:696-706(2010).  
Leupin O.,et al.J. Biol. Chem. 286:19489-19500(2011).