

For Research Use Only

# WNT1 Recombinant monoclonal antibody

Catalog Number:87881-1-RR



## Basic Information

<b>Catalog Number:</b> 87881-1-RR	<b>GenBank Accession Number:</b> BC074799	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7471	<b>CloneNo.:</b> 253400F10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P04628	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> wingless-type MMTV integration site family, member 1	
<b>Immunogen Catalog Number:</b> AG27380	<b>Observed MW:</b> 41 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : SKOV-3 cells, LO2 cells, HeLa cells, Jurkat cells, HepG2 cells
<b>Species Specificity:</b> human	

## Background Information

Wingless-related MMTV integration site 1 (Wnt1), a cysteine-rich glycosylated protein related to the Drosophila protein Wingless, has been shown to inhibit microglial inflammatory activation in a variety of CNS diseases, such as ischemic reperfusion injury in the brain, intracerebral hemorrhage, Alzheimer's disease, and Parkinson's disease (PMID: 40025242). Wnt1 is expressed in the dorsal part, and it is necessary for the maintenance of Fgf8 expression. This molecule is essential for the induction of the midbrain and the cerebellum (PMID: 34722541, PMID: 1583219). Wnt1 as a bone anabolic Wnt ligand in long bones and in alveolar bone and cementum formation during tooth maintenance (PMID: 30404864, PMID: 34009051). Wnt1 is a key regulator of neural crest cells, which constitute most of the facial mesenchymal cells (PMID:792502).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

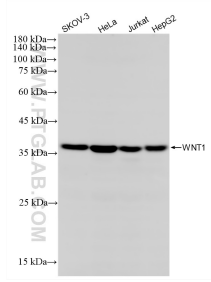
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

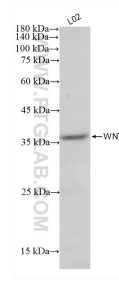
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W: ptglab.com

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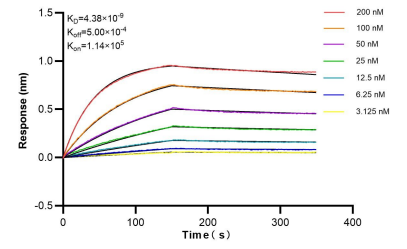
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87881-1-RR (WNT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



L02 cells were subjected to SDS PAGE followed by western blot with 87881-1-RR (WNT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87881-1-RR against Human WNT1 were performed. The affinity constant is 4.38 nM.