

For Research Use Only

# CNTN2 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 87574-1-PBS



## Basic Information

<b>Catalog Number:</b> 87574-1-PBS	<b>GenBank Accession Number:</b> NM_001346083.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6900	<b>CloneNo.:</b> 252726A10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q02246	
<b>Isotype:</b> IgG	<b>Full Name:</b> contactin 2 (axonal)	
<b>Immunogen Catalog Number:</b> EG5489	<b>Calculated MW:</b> 113 kDa	
	<b>Observed MW:</b> 135-150 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse, rat, pig

## Product Information

87574-1-PBS targets CNTN2 as part of a matched antibody pair:

MP03102-1: 87574-2-PBS capture and 87574-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

Contactin-2 (CNTN2), also known as CNTN2 or axonal glycoprotein TAG-1, is a cell adhesion molecule anchored within the cell membrane that is a member of the immunoglobulin family. It is reported to be transiently expressed in specific neurons during the fetal period (PMID: 27621318, 29777776). CNTN2 consists of six Ig domains followed by four fibronectin domains, and it is tethered to the cell surface by a glycosylphosphatidylinositol anchor. CNTN2 levels may reflect impairment of brain development and indirectly brain iron stores, which are likely deficient in infants of maternal IDA or chronic hypoxic states like IDMs (PMID: 26718491).

## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS only, pH7.3

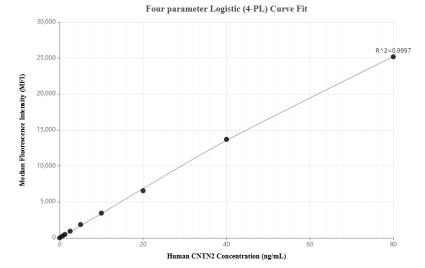
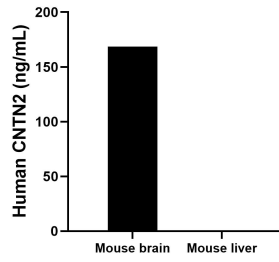
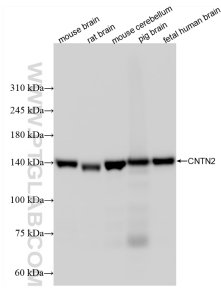
For technical support and original validation data for this product please contact:

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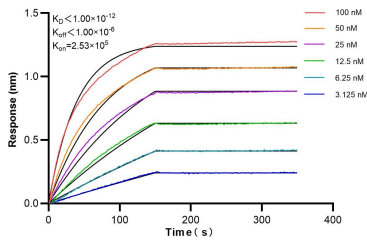
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87574-1-RR (CNTN2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87574-1-PBS in a different storage buffer formulation.

The mean CNTN2 concentration was determined to be 168.6 ng/mL in mouse brain tissue extract based on a 3.2 mg/mL extract load, mouse liver tissue extract were served as a negative control.

Cytometric bead array standard curve of MP03102-1, CNTN2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87574-2-PBS. Detection antibody: 87574-1-PBS. Standard: Eg5489. Range: 0.625-80 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 87574-1-RR against Human CNTN2 were performed. The affinity constant is below 1 pM.