

For Research Use Only

# C9 Recombinant monoclonal antibody

Catalog Number: 84890-4-RR



## Basic Information

<b>Catalog Number:</b> 84890-4-RR	<b>GenBank Accession Number:</b> NM_001737.4	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 735	<b>CloneNo.:</b> 242475B11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P02748	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000 IHC: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> complement component 9	
<b>Immunogen Catalog Number:</b> EG1282	<b>Calculated MW:</b> 63kDa	
	<b>Observed MW:</b> 64 kDa	

## Applications

**Tested Applications:**  
WB, IHC, ELISA

**Species Specificity:**  
human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : human placenta tissue,

IHC : human colon tissue, human tonsillitis tissue

## Background Information

The final consequence of complement activation is the formation of the membrane attack complex (MAC), a multiprotein assembly that perforates cell membranes, forming transmembrane channels. The MAC plays a critical role in complement-mediated hemolysis and inflammasome activation (PMID: 27444648). Complement component 9 (C9) is 1 of 5 late-acting proteins of complement that participate in the assembly and function of the MAC. C9 may be cleaved by thrombin to generate fragments C9a (25 kDa) and C9b (37 kDa) (PMID: 7523406).

## 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

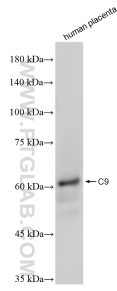
For technical support and original validation data for this product please contact:

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

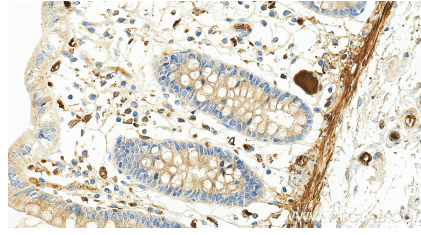
E: proteintech@ptglab.com  
W: ptglab.com

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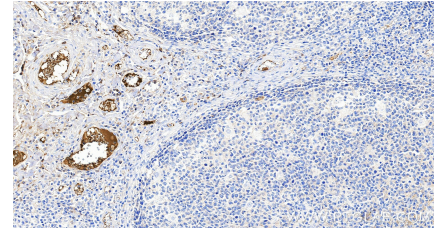
## Selected Validation Data



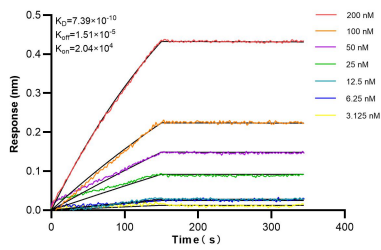
human placenta tissue were subjected to SDS PAGE followed by western blot with 84890-4-RR (C9 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 84890-4-RR (C9 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84890-4-RR (C9 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84890-4-RR against Human C9 were performed. The affinity constant is 0.739 nM.