

For Research Use Only

# C1orf124 Recombinant monoclonal antibody

Catalog Number:86895-1-RR



## Basic Information

<b>Catalog Number:</b> 86895-1-RR	<b>GenBank Accession Number:</b> BC015740	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 83932	<b>CloneNo.:</b> 251921A8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9HO40	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> DNA-dependent metalloprotease SPRTN	
<b>Immunogen Catalog Number:</b> AG20586	<b>Calculated MW:</b> 489 aa, 55 kDa	
	<b>Observed MW:</b> 55/65 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, A549 cells
<b>Species Specificity:</b> human	

## Background Information

Spartan (Protein with SprT-like domain at the N terminus), also known as DVC1 or C1orf124, is a replication-coupled DNA-dependent metalloprotease that cleaves proteins cross-linked to DNA to promote DPC repair (PMID: 38600235). Spartan protease activity is stimulated by DNA binding, while posttranslational modification of Spartan governs both its protease activity and recruitment to the DPC on chromatin (PMID: 27871366). The regulation of Spartan includes a ubiquitin switch (where deubiquitination activates its proteolytic activity), and acetylation and phosphorylation switches (which facilitate DNA binding). The calculated molecular weight of Spartan is 55 kDa, while the 65-kDa band could be due to posttranslational modification (PMID: 33567341, 31316063).

## Storage

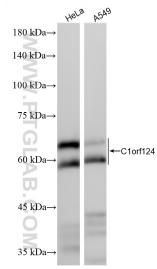
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

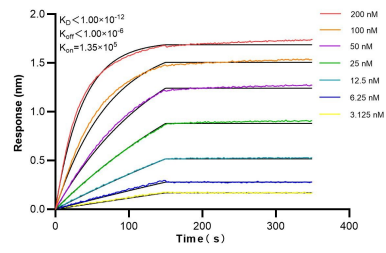
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86895-1-RR (C1orf124 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86895-1-RR against Human C1orf124 were performed. The affinity constant is below 1 pM.