

For Research Use Only

C1orf124 Recombinant monoclonal antibody, PBS Only

Catalog Number:86895-1-PBS



Basic Information

Catalog Number: 86895-1-PBS	GenBank Accession Number: BC015740	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 83932	CloneNo.: 251921A8
Isotype: IgG	UNIPROT ID: Q9HO40	
Immunogen Catalog Number: AG20586	Full Name: DNA-dependent metalloprotease SPRTN	
	Calculated MW: 489 aa, 55 kDa	
	Observed MW: 55/65 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

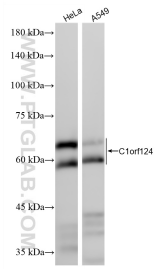
T: 4006900926

E: Proteintech-CN@ptglab.com

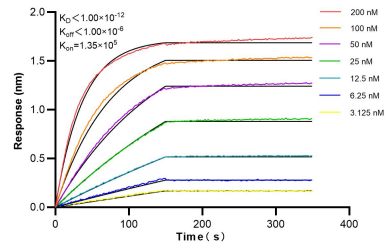
W: ptgcn.com

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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. This data was developed using the same antibody clone with 86895-1-PBS in a different storage buffer formulation.



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