

For Research Use Only

C1orf124 Recombinant monoclonal antibody

Catalog Number: 86895-1-RR



Basic Information

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|---|---|---|
| Catalog Number: 86895-1-RR | GenBank Accession Number: BC015740 | Purification Method: Protein A purification |
| Source: Rabbit | GeneID (NCBI): 83932 | CloneNo.: 251921A8 |
| Isotype: IgG | UNIPROT ID: Q9HO40 | Recommended Dilutions: WB: 1:5000-1:50000 |
| Immunogen Catalog Number: AG20586 | Full Name: DNA-dependent metalloprotease SPRTN | |
| | Calculated MW: 489 aa, 55 kDa | |
| | Observed MW: 55/65 kDa | |

Applications

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| Tested Applications: WB, ELISA | Positive Controls: WB : HeLa cells, A549 cells |
| 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 -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

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

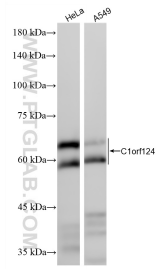
T: 4006900926

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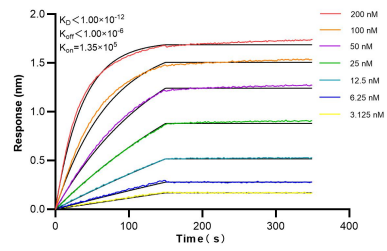
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Selected Validation Data



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.