

For Research Use Only

Spartan Polyclonal antibody

Catalog Number: 24850-1-AP



Basic Information

Catalog Number:

24850-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG20586

GenBank Accession Number:

BC015740

GeneID (NCBI):

83932

UNIPROT ID:

Q9H040

Full Name:

DNA-dependent metalloprotease

SPRTN

Calculated MW:

489 aa, 55 kDa

Observed MW:

55 kDa, 65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human

Positive Controls:

WB: human placenta tissue,

IP: HEK-293 cells,

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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

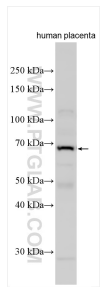
For technical support and original validation data for this product please contact:

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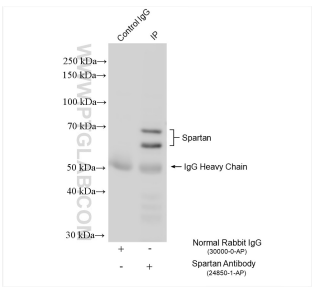
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Selected Validation Data



human placenta tissue were subjected to SDS PAGE followed by western blot with 24850-1-AP (Spartan antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-Spartan (IP:24850-1-AP, 4ug; Detection:24850-1-AP 1:500) with HEK-293 cells lysate 1800 ug.