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**Product Name: KD-Validated Aminopeptidase A / CD249 Recombinant Rabbit Monoclonal Antibody****Catalog #: KVA01092**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,ICC                                                                      |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 109.2kDa               |

**Antigen Information**

|                          |                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | ENPEP<br>ENPEP; Glutamyl Aminopeptidase; CD249; Differentiation Antigen Gp160; Aminopeptidase                      |
| <b>Alternative Names</b> | A; EC 3.4.11.7; Gp160; AP-A; EAP; Glutamyl Aminopeptidase (Aminopeptidase A); CD249 Antigen; EC 3.4.11; GP160; APA |
| <b>Gene ID</b>           | 2028.0                                                                                                             |
| <b>SwissProt ID</b>      | Q07075                                                                                                             |
| <b>Immunogen</b>         | A synthesized peptide derived from human Aminopeptidase A / CD249                                                  |

**Background**

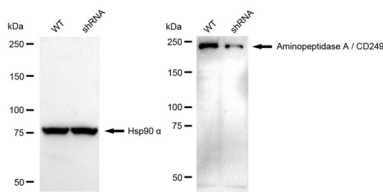
The ENPEP gene encodes glutamyl aminopeptidase, a type II integral membrane protein with an extracellular zinc-binding

domain. This protein can upregulate blood pressure by cleaving the N-terminal aspartate from angiotensin II, and can regulate blood vessel formation and enhance tumorigenesis in some tissues. Along with ANPEP and DPP4, ENPEP was found to be a candidate co-receptor for the coronavirus SARS-CoV-2, which causes COVID-19. [provided by RefSeq, Apr 2020]

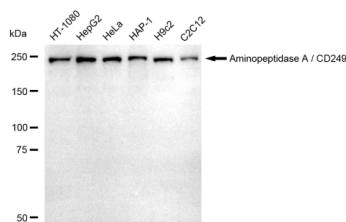
## Research Area

Immunology, Cardiovascular, Stem Cells

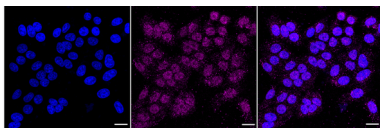
## Image Data



Western blotting analysis using Aminopeptidase A / CD249 antibody (KVA01092). Aminopeptidase A / CD249 expression in wild type (WT) and Aminopeptidase A / CD249 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Aminopeptidase A / CD249 antibody (KVA01092, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Aminopeptidase A / CD249 antibody (KVA01092). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Aminopeptidase A / CD249 antibody (KVA01092, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with aminopeptidase A / CD249 antibody (KVA01092, 1:1,000). Nuclei were stained blue with DAPI; Aminopeptidase A / CD249 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.