

**Product Name: KD-Validated HDHD5 Recombinant Rabbit Monoclonal Antibody****Catalog #: KVA01026**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC,IHC-P                                                            |
| <b>Reactivity</b>   | Human                                                                       |
| <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; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200 |
| <b>Molecular Weight</b> | Calculated MW: 46.3kDa                                                     |

**Antigen Information**

|                          |                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | HDHD5<br>HDHD5; Haloacid Dehalogenase Like Hydrolase Domain Containing 5; CECR5; Haloacid                                                    |
| <b>Alternative Names</b> | Dehalogenase-Like Hydrolase Domain-Containing 5; Cat Eye Syndrome Chromosome Region, Candidate 5; Cat Eye Syndrome Critical Region Protein 5 |
| <b>Gene ID</b>           | 27440.0                                                                                                                                      |
| <b>SwissProt ID</b>      | Q9BXW7                                                                                                                                       |
| <b>Immunogen</b>         | A synthesized peptide derived from human CECR5                                                                                               |

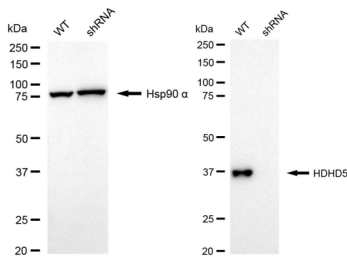
**Background**

Predicted to be involved in glycerophospholipid biosynthetic process. Located in mitochondrion. [provided by Alliance of Genome Resources, Jul 2025]

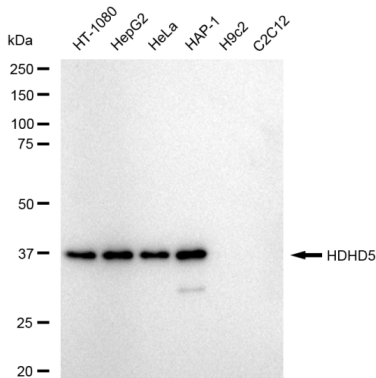
## Research Area

Epigenetics and Nuclear Signaling, Stem Cells, Epigenetics and Nuclear Signaling, Cardiovascular

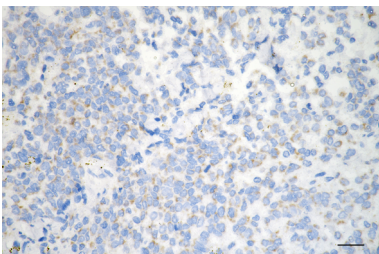
## Image Data



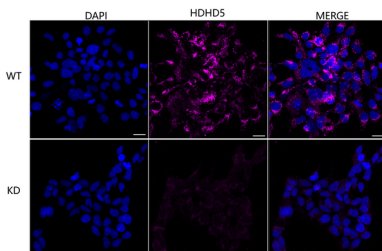
Western blotting analysis using HDHD5 antibody (KVA01026). HDHD5 expression in wild type (WT) and HDHD5 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with HDHD5 antibody (KVA01026, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



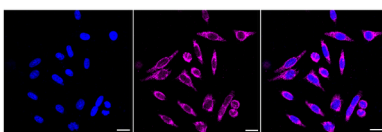
Western blotting analysis using HDHD5 antibody (KVA01026). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with HDHD5 antibody (KVA01026, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



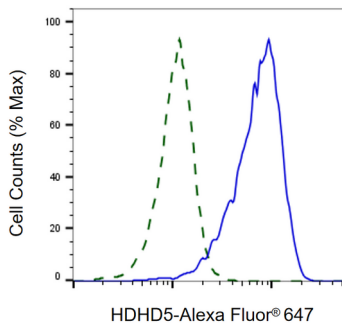
Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using HDHD5 antibody (KVA01026, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



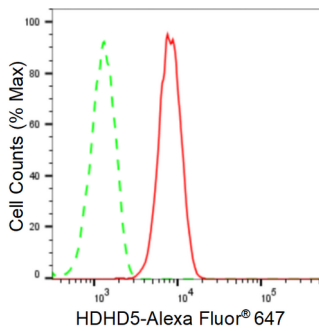
Immunocytochemical staining of HeLa cells using HDHD5 antibody (KVA01026, 1:1,000). Top panel: wild-type (WT); Bottom panel: HDHD5 shRNA knockdown (KD). Nuclei were stained blue with DAPI; HDHD5 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with HDHD5 antibody (KVA01026, 1:1,000). Nuclei were stained blue with DAPI; HDHD5 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.



Validation of HDHD5 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with HDHD5 antibody (KVA01026, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of HDHD5 expression in HepG2 cells using HDHD5 antibody (KVA01026, 1:2,000). Green, isotype control; red, HDHD5.