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|--------------------------|---------------------------------------------------------------------------------------------------|
| <b>Product name:</b>     | pHyde Rabbit Polyclonal Antibody                                                                  |
| <b>Cat number:</b>       | ABN16089                                                                                          |
| <b>Conjugate:</b>        | Unconjugated                                                                                      |
| <b>Size:</b>             | 100µL                                                                                             |
| <b>Clone:</b>            | Polyclonal                                                                                        |
| <b>Concentration:</b>    | 1mg/ml                                                                                            |
| <b>Host:</b>             | Rabbit                                                                                            |
| <b>Isotype:</b>          | IgG                                                                                               |
| <b>Immunogen:</b>        | The antiserum was produced against synthesized peptide derived from human STEA3. AA range:421-470 |
| <b>Reactivity:</b>       | Human,Mouse,Rat                                                                                   |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000                          |
| <b>Molecular Weight:</b> | 54kDa                                                                                             |
| <b>Purification:</b>     | Affinity purification                                                                             |
| <b>Form:</b>             | Liquid                                                                                            |
| <b>Buffer:</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.                |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.      |

**Background:**

STEAP3 metalloreductase(STEAP3) Homo sapiens This gene encodes a multipass membrane protein that functions as an iron transporter. The encoded protein can reduce both iron (Fe<sup>3+</sup>) and copper (Cu<sup>2+</sup>) cations. This protein may mediate downstream responses to p53, including promoting apoptosis. Deficiency in this gene can cause anemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015],caution:Was initially thought to have tumor suppressor function in prostate cancer. However, it was shown that it is probably not the case (PubMed:12866033).,cofactor:FAD.,function:Endosomal ferrireductase required for efficient transferrin-dependent iron uptake in erythroid cells. Participates in erythroid iron homeostasis by reducing Fe(3+) to Fe(2+). Can also reduce of Cu(2+) to Cu(1+), suggesting that it participates in copper homeostasis. Uses NAD(+) as acceptor (By similarity). May play a role downstream of p53/TP53 to interface apoptosis and cell cycle progression. Indirectly involved in exosome secretion by facilitating the secretion of proteins such as TCTP.,induction:By p53/TP53.,similarity:Belongs to the STEAP family.,similarity:Contains 1 ferric oxidoreductase domain.,subcellular location:Localizes to vesicular-like structures at the plasma membrane and around the nucleus.,subunit:Interacts with BNIP3L, MYT1 and TCTP.,tissue specificity:Expressed in adult bone marrow, placenta, liver, skeletal muscle and pancreas. Down-regulated in hepatocellular carcinoma.,