Best Tools for immunology Research

pHyde Polyclonal Antibody

Catalog No :	YT3707
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	pHyde
Fields :	>>p53 signaling pathway;>>Ferroptosis
Gene Name :	STEAP3
Protein Name :	Metalloreductase STEAP3
Human Gene Id :	55240
Human Swiss Prot No :	Q658P3
Mouse Gene Id :	68428
Mouse Swiss Prot No :	Q8CI59
Rat Gene Id :	170824
Rat Swiss Prot No :	Q5RKL5
Immunogen :	The antiserum was produced against synthesized peptide derived from human STEA3. AA range:421-470
Specificity :	pHyde Polyclonal Antibody detects endogenous levels of pHyde protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 54kD

Cell Pathway : p53;

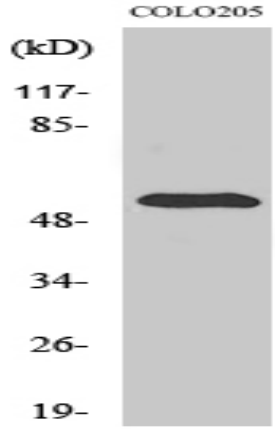
Background : STEAP3 metalloreductase(STEAP3) Homo sapiens This gene encodes a multipass membrane protein that functions as an iron transporter. The encoded protein can reduce both iron (Fe3+) and copper (Cu2+) cations. This protein may mediate downstream responses to p53, including promoting apoptosis. Deficiency in this gene can cause anemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015],

Function : 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.,su

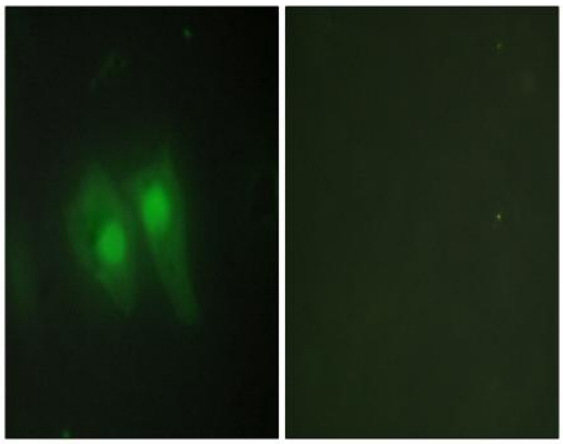
Subcellular Location : Endosome membrane ; Multi-pass membrane protein . Localizes to vesicular-like structures at the plasma membrane and around the nucleus.

Expression : Expressed in adult bone marrow, placenta, liver, skeletal muscle and pancreas. Down-regulated in hepatocellular carcinoma.

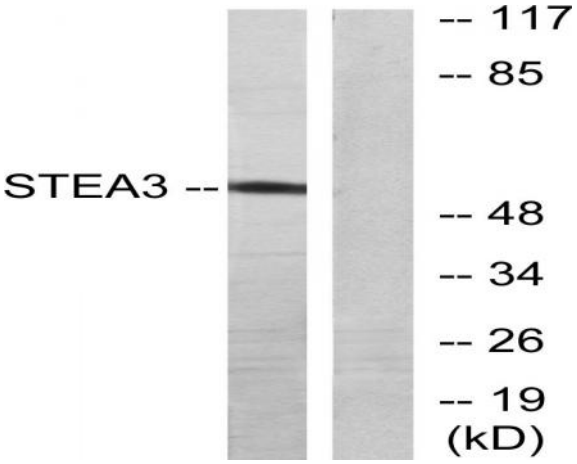
Products Images



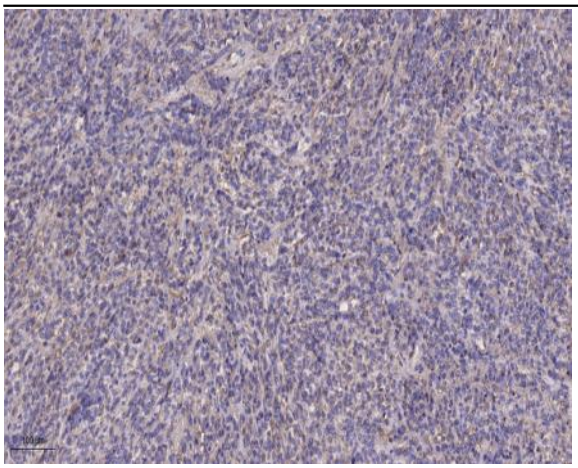
Western Blot analysis of various cells using pHyde Polyclonal Antibody



Immunofluorescence analysis of HeLa cells, using STEA3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO205 cells, using STEA3 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).