

For Research Use Only

STEAP3 Polyclonal antibody

Catalog Number: 28478-1-AP

1 Publications



Basic Information

Catalog Number: 28478-1-AP	GenBank Accession Number: BC042150	Purification Method: Antigen affinity purification
Concentration: 500 µg/ml	GeneID (NCBI): 55240	Recommended Dilutions: WB 1:1000-1:2000
Source: Rabbit	UNIPROT ID: Q658P3	IHC 1:500-1:2000
Isotype: IgG	Full Name: STEAP family member 3	IF/ICC 1:200-1:800
Immunogen Catalog Number: AG29528	Calculated MW: 488 aa, 55 kDa	
	Observed MW: 45-50 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB : HeLa cells, PC-12 cells, C6 cells, mouse liver tissue, rat liver tissue
Species Specificity: Human, mouse, rat	IHC : human appendicitis tissue, mouse liver tissue, human urothelial carcinoma tissue
Cited Species: human	IF/ICC : HepG2 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

STEAP3 (Six-Transmembrane Epithelial Antigen of Prostate 3) is also named as TSAP6, Dudulin-2 and pHyde, and belongs to the STEAP family. STEAP3 is a member of the STEAP family and is composed of a six-transmembrane domain at the COOH-terminal domain and a cytoplasmic N-terminal oxidoreductase domain, which is essential for iron and copper uptake (PMID:16227996). STEAP3 contains a functional p53-binding site in its promoter and can be upregulated following p53 activation to enhance cell death in myeloid leukemia cell line and breast cancer cells (PMID: 18617898). By interacting with Nix, a pro-apoptotic Bcl-2 family member, and Myt1 kinase, a negative regulator of the G2/M transition, STEAP3 overexpression promotes apoptosis and inhibits G2/M transition in cell cycle progression (PMID: 12606722, PMID: 10504341).

Notable Publications

Author	Pubmed ID	Journal	Application
Tong Sun	39716275	Biol Direct	WB,IHC

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

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

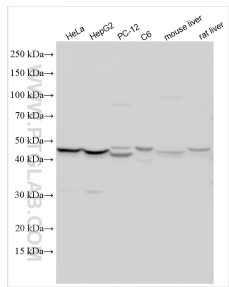
T: 4006900926

E: Proteintech-CN@ptglab.com

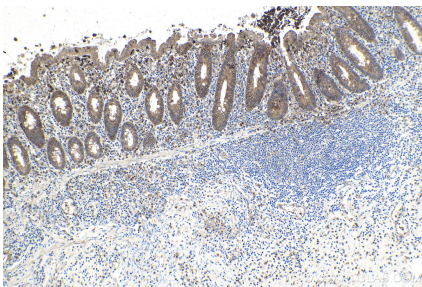
W: ptgcn.com

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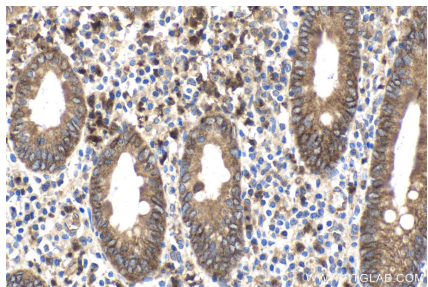
Selected Validation Data



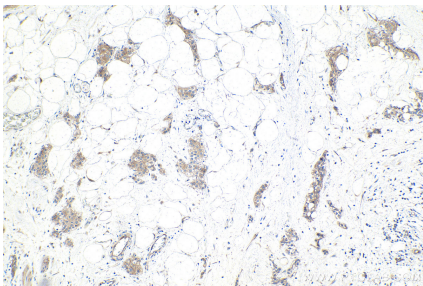
Various lysates were subjected to SDS PAGE followed by western blot with 28478-1-AP (STEAP3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



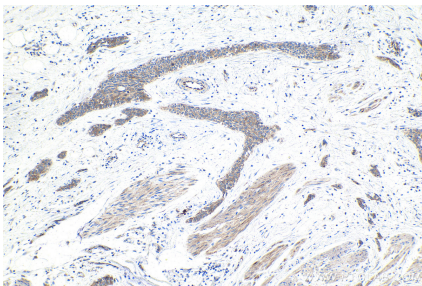
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 28478-1-AP (STEAP3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



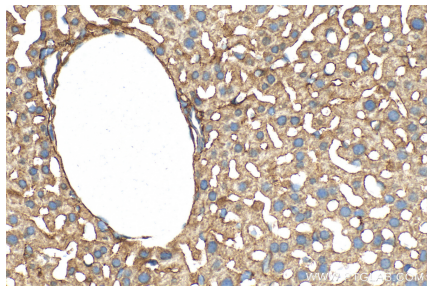
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 28478-1-AP (STEAP3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



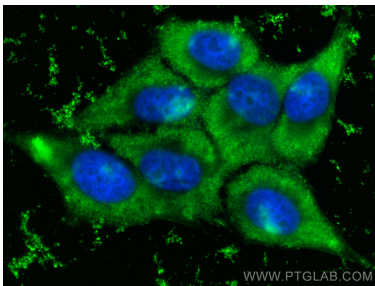
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 28478-1-AP (STEAP3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 28478-1-AP (STEAP3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 28478-1-AP (STEAP3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using STEAP3 antibody (28478-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).