

For Research Use Only

# STEAP3 Recombinant antibody

Catalog Number: 83484-2-RR



## Basic Information

Catalog Number:

83484-2-RR

Size:

400 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG29528

GenBank Accession Number:

BC042150

GeneID (NCBI):

55240

UNIPROT ID:

Q658P3

Full Name:

STEAP family member 3

Calculated MW:

488 aa, 55 kDa

Observed MW:

55 kDa

Purification Method:

Protein A purification

CloneNo.:

1N5

Recommended Dilutions:

WB 1:1000-1:4000

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, rat

Positive Controls:

WB : HeLa cells, HepG2 cells, PC-12 cells, C6 cells

## 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).

## 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:

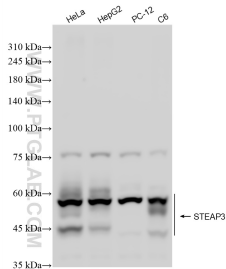
T: 4006900926

E: Proteintech-CN@ptglab.com

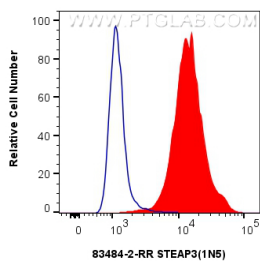
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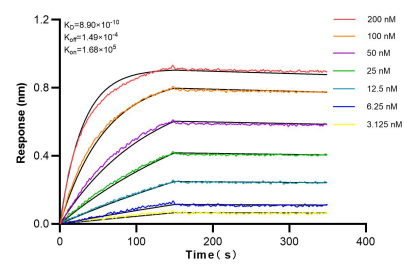
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83484-2-RR (STEAP3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug STEAP3 Recombinant antibody (83484-2-RR, Clone:1N5) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83484-2-RR against Human STEAP3 were performed. The affinity constant is 0.89 nM.