

# **Human STEAP1 APC-conjugated Antibody**

Monoclonal Rabbit IgG Clone # 2959F Catalog Number: FAB55871A

100 Tests

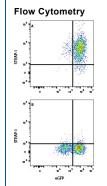
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human STEAP1 in direct ELISA.		
Source	Monoclonal Rabbit IgG Clone # 2959F		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human STEAP1 Met1-Trp71 Accession # Q9UHE8		
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.		

# **APPLICATIONS**

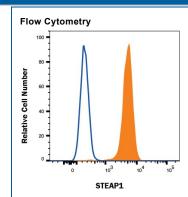
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

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	Recommended Concentration	Sample	
Flow Cytometry	10 μL/10 <sup>6</sup> cells	see below	

## DATA



Detection of STEAP1 in HEK293 cells by Flow Cytometry. HEK293 cells transfected with Human STEAP-1 and eGFP (A) vs irrelevant cells (B) were stained with Rabbit Anti-Human STEAP1 APC-conjugated Monoclonal Antibody (Catalog # FAB55871A). View our protocol for Staining Membraneassociated Proteins.



Detection of STEAP1 in LnCaP cells by Flow Cytometry LnCaP cells were stained with Rabbit Anti-Human STEAP1 APC-conjugated Monoclonal Antibody (Catalog # FAB55871A, filled histogram) or isotype control antibody (Catalog # IC1051A, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with saponin. View our protocol for Staining Intracellular Molecules.

### PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze.

12 months from date of receipt, 2 to 8 °C as supplied

#### BACKGROUND

STEAP1 (six-transmembrane epithelial antigen of the prostate-1) is a 40 kDa protein (predicted) of the STEAP family of metalloreductases. It is expressed mainly at cell-cell junctions between prostate secretory epithelium, and up-regulated in prostate and some bladder, colon and ovarian cancers and Ewing's sarcomas. Human STEAP1 is 339 amino acids (aa) in length. It contains a ferric oxidoreductase domain (aa 119-265) that includes transmembrane sequences (# 2, 3, 4, and part of 5, out of 6 sequences). Two splice forms diverge at aa 255, terminating after aa 58 or 259. Over aa 1-71, human and mouse STEAP1 share 68% aa identity.

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