

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	<i>E. coli</i> -derived recombinant human STEAP1 Met1-Trp71 Accession # Q9UHE8
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

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 metalloredoxases. 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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