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STEAP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant STEAP1.
Catalog # AT4074a

Product Information

Application	WB, IF, E
Primary Accession	Q9UHE8
Other Accession	BC011802
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4F6-1F3
Calculated MW	39851

Additional Information

Gene ID	26872
Other Names	Metalloreductase STEAP1, 1161-, Six-transmembrane epithelial antigen of prostate 1, STEAP1, PRSS24, STEAP
Target/Specificity	STEAP1 (AAH11802, 1 a.a. ~ 339 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	STEAP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

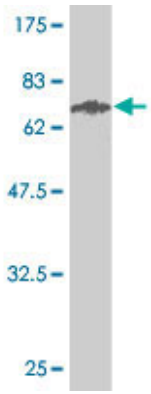
This gene is predominantly expressed in prostate tissue, and is found to be upregulated in multiple cancer cell lines. The gene product is predicted to be a six-transmembrane protein, and was shown to be a cell surface antigen significantly expressed at cell-cell junctions.

References

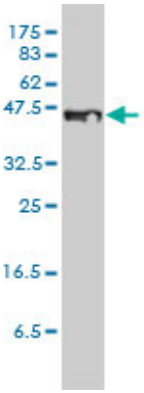
Evaluation of candidate stromal epithelial cross-talk genes identifies association between risk of serous ovarian cancer and TERT, a cancer susceptibility hot-spot. Johnatty SE, et al. PLoS Genet, 2010 Jul 8. PMID 20628624.Six-transmembrane epithelial antigen of the prostate (STEAP1 and STEAP2)-differentially

expressed by murine and human mesenchymal stem cells. Vaghjiani RJ, et al. Tissue Eng Part A, 2009 Aug. PMID 19196137.Common genetic variation in candidate genes and susceptibility to subtypes of breast cancer. Mavaddat N, et al. Cancer Epidemiol Biomarkers Prev, 2009 Jan. PMID 19124506.STEAP1 is over-expressed in breast cancer and down-regulated by 17beta-estradiol in MCF-7 cells and in the rat mammary gland. Maia CJ, et al. Endocrine, 2008 Aug-Dec. PMID 18958632.STEAP mRNA detection in serum of patients with solid tumours. Valenti MT, et al. Cancer Lett, 2009 Jan 8. PMID 18793824.

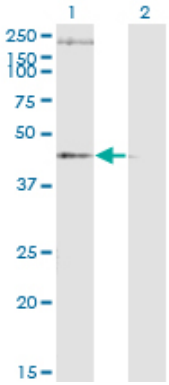
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (63.03 KDa) .

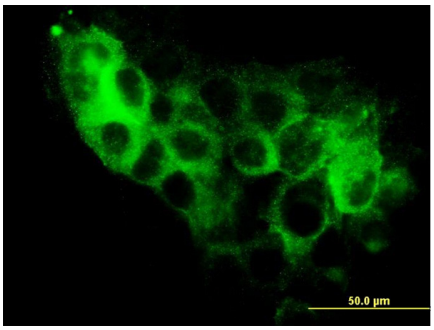


STEAP1 monoclonal antibody (M01), clone 4F6-1F3
Western Blot analysis of STEAP1 expression in A-431 (
(Cat # AT4074a)

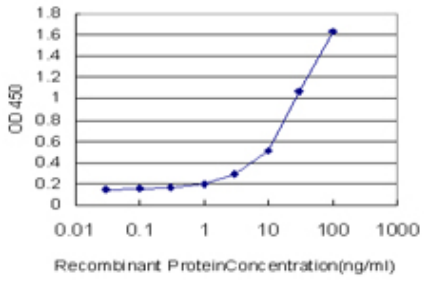


Western Blot analysis of STEAP1 expression in transfected 293T cell line by STEAP1 monoclonal antibody (M01), clone 4F6-1F3.

Lane 1: STEAP1 transfected lysate (Predicted MW: 39.9 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to STEAP1 on A-431 cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged STEAP1 is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.