

Product datasheet for **CF501288**

USP5 Mouse Monoclonal Antibody [Clone ID: OTI2F5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2F5
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:200 - 1:1000, IHC 1:50, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human USP5(NP_003472) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	93.1 kDa
Gene Name:	ubiquitin specific peptidase 5
Database Link:	NP_003472 Entrez Gene 297593 Rat Entrez Gene 8078 Human P45974



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Background:

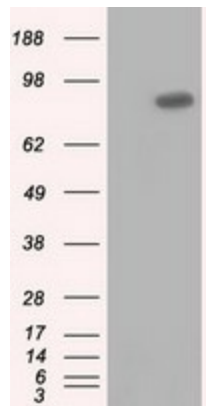
Ubiquitin (see MIM 191339)-dependent proteolysis is a complex pathway of protein metabolism implicated in such diverse cellular functions as maintenance of chromatin structure, receptor function, and degradation of abnormal proteins. A late step of the process involves disassembly of the polyubiquitin chains on degraded proteins into ubiquitin monomers. USP5 disassembles branched polyubiquitin chains by a sequential exo mechanism, starting at the proximal end of the chain (Wilkinson et al., 1995 [PubMed 7578059]). [supplied by OMIM]

Synonyms:

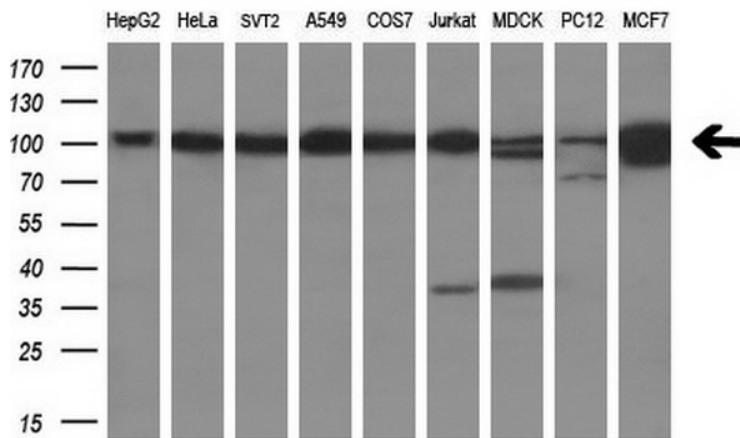
ISOT

Protein Families:

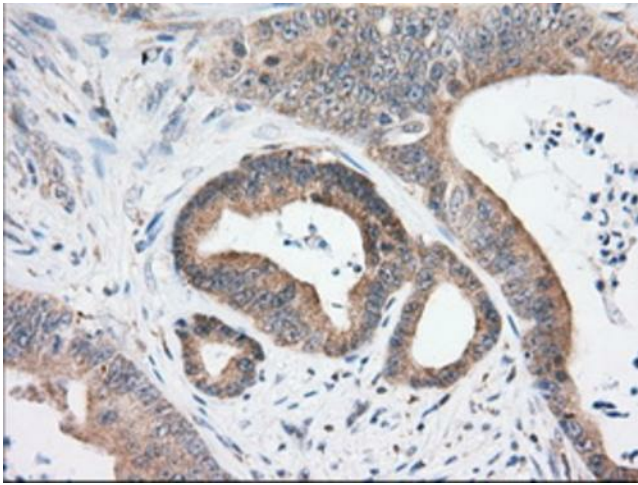
Druggable Genome, Protease

Product images:


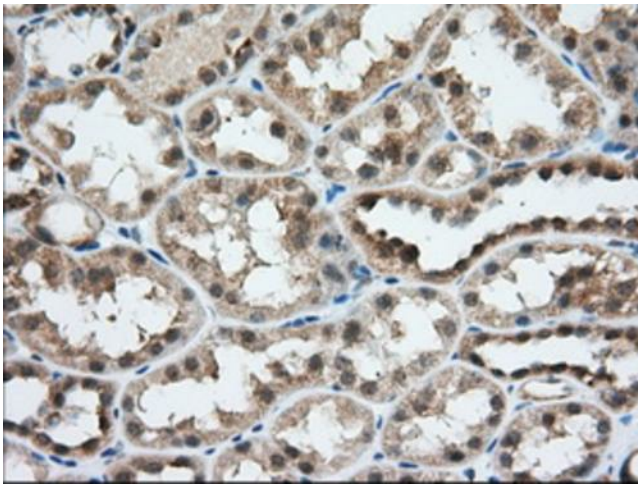
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY USP5 [RC202624], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-USP5. Positive lysates [LY418652] (100ug) and [LC418652] (20ug) can be purchased separately from OriGene.



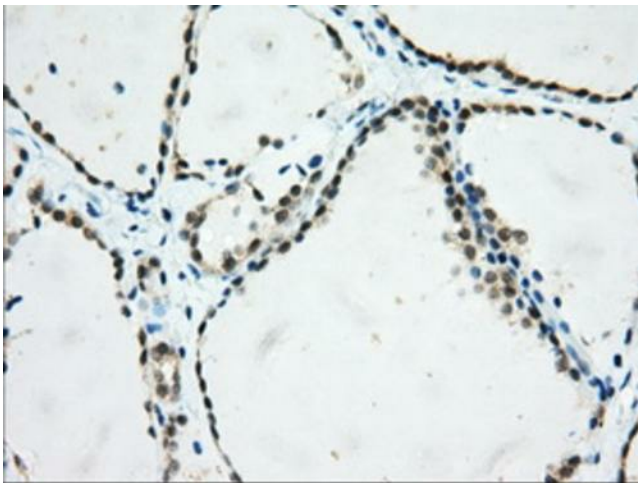
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-USP5 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



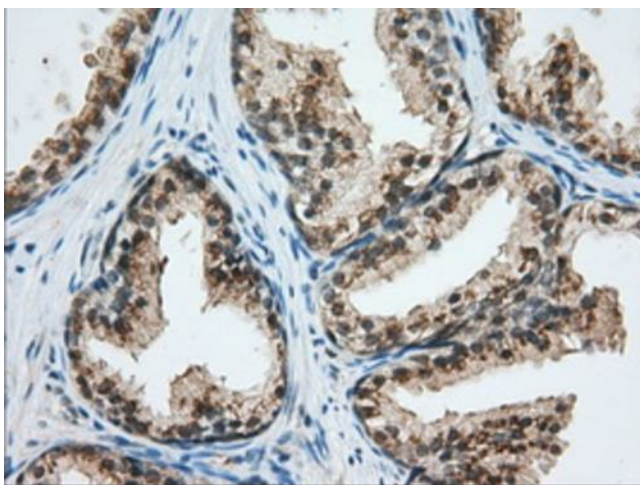
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-USP5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501288], Dilution 1:50)



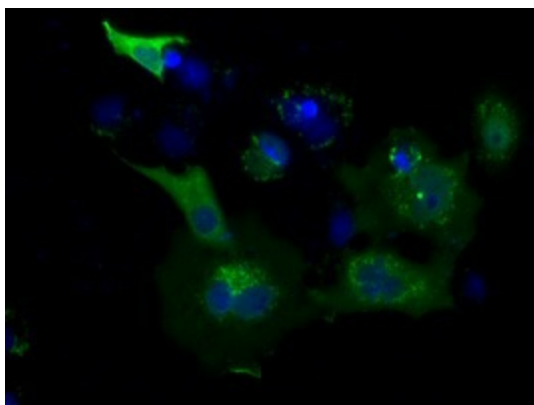
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-USP5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501288], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-USP5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501288], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-USP5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501288], Dilution 1:50)



Anti-USP5 mouse monoclonal antibody ([TA501288]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY USP5 ([RC202624]).