USP45 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	USP45, Polyclonal Antibody
Full Product Name	USP45 Antibody, FITC conjugated
Product Gene Name	anti-USP45 antibody
Product Synonym Names	Ubiquitin carboxyl-terminal hydrolase 45; Deubiquitinating enzyme 45; Ubiquitin thioesterase 45; Ubiquitin-specific-processing protease 45; USP45
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: USP45 (MBS7050461) FITC Conjugated Antibody: USP45 (MBS7050463)
Molecular Weight	55,812 Da
3D Structure	ModBase 3D Structure for Q70EL2
Immunogen	Recombinant human Ubiquitin carboxyl-terminal hydrolase 45 protein (1-240AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	FITC
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-82762 / sc-82763
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-USP45 antibody	ELISA (EIA)
Related Product Information for anti-USP45 antibody	Thiol-dependent hydrolysis of ester, thioester, amide, peptide and isopeptide bonds formed by the C-terminal Gly of ubiquitin (a 76-residue protein attached to proteins as an intracellular targeting signal.
Product References and Citations for anti-USP45 antibody	[1]"The full-ORF clone resource of the German cDNA consortium."Bechtel S., Rosenfelder H., Duda A., Schmidt C.P., Ernst U., Wellenreuther R., Mehrle A., Schuster C., Bahr A., Bloecker H., Heubner D., Hoerlein A., Michel G., Wedler H., Koehrer K., Ottenwaelder B., Poustka A., Wiemann S., Schupp I.BMC Genomics 8: 399-399(2007). [2]"The DNA sequence and analysis of human chromosome 6."Mungall A.J., Palmer S.A., Sims S.K., Edwards C.A., Ashurst J.L., Wilming L., Jones M.C., Horton R., Hunt S.E., Scott C.E., Gilbert J.G.R., Clamp M.E., Bethel G., Milne S., Ainscough R., Almeida J.P., Ambrose K.D., Andrews T.D. Beck S.Nature 425: 805-811(2003). 3[]"The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC)."The MGC Project TeamGenome Res. 14: 2121-2127(2004).
Other Notes	Small volumes of anti-USP45 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for USP45 purchase	MBS7050463 is an antibody targeting USP45. Also known as USP45 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USP45. It may not necessarily be applicable to this product.

NCBI GI #	122937412
NCBI GeneID	85015
NCBI Accession #	NP_001073950.1
UniProt Primary Accession #	Q70EL2
UniProt Secondary Accession #	Q5T062; Q86T44; Q86TC0; Q9BRU1; B2RXG0
UniProt Related Accession #	Q70EL2
GenBank Nucleotide #	NM_001080481.1
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 45 isoform a
NCBI Official Synonym Full Names	ubiquitin specific peptidase 45
NCBI Official Symbol	USP45
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 45
UniProt Synonym Protein Names	Deubiquitinating enzyme 45; Ubiquitin thioesterase 45; Ubiquitin-specific-processing protease 45
Protein Family	Secreted 45 kDa protein
UniProt Gene Name	USP45
UniProt Entry Name	UBP45_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 45
NCBI Summary for USP45	The protein encoded by this gene is a deubiquitylase that binds ERCC1, the catalytic subunit of the XPF-ERCC1 DNA repair endonuclease. This endonuclease is a critical regulator of DNA repair processes, and the deubiquitylase activity of the encoded protein is important for maintaining the DNA repair ability of XPF-ERCC1. [provided by RefSeq, Sep 2016]
UniProt Comments for USP45	USP45: Belongs to the peptidase C19 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.19.12; Protease; Ubiquitin conjugating system; Ubiquitin-specific protease Chromosomal Location of Human Ortholog: 6q16.2 Cellular Component: cytoplasm; nucleoplasm; nucleus Molecular Function: ubiquitin-specific protease activity Biological Process: DNA repair; protein deubiquitination
Research Articles on USP45	**1.** these results establish USP45 as a new regulator of XPF-ERCC1 crucial for efficient DNA repair
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