DUSP14 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	DUSP14, Monoclonal Antibody
Full Product Name	DUSP14 (Dual Specificity Phosphatase 14, MKP-L, MKP6) (MaxLight 490)
Product Gene Name	anti-DUSP14 antibody
Product Synonym Names	Dual Specificity Phosphatase 14; MKP-L; MKP6
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	4F6
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes DUSP14.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	DUSP14 (AAH00370, 1aa-198aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MSSRGHSTLPRTLMAPRMISEGDIGGIAQITSSLFLGRGSVASNRHLLQARGITCIVNATIEIPNFNWPQFEYVKVPLADMPHAPIGLYFDTVADKIHSVSRK
Conjugate	MaxLight490
Product Categories/Family for anti-DUSP14 antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-DUSP14 antibody	FLISA
Application Notes for anti-DUSP14 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-DUSP14 antibody	In addition to antigen recognition by the T-cell receptor, T-cell activation requires a second signal from a costimulatory receptor, such as CD28 (MIM 18 induces transcription of interleukin-2 (IL2; MIM 147680) and stabilizes newly synthesized IL2 through the activation of mitogen-activated protein kinases (see MIM 165160). DUSP14 is a negative regulator of CD28 signaling. [supplied by OMIM]
Other Notes	Small volumes of anti-DUSP14 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece dry ice and additional dry ice fee may apply.

Searchable Terms for DUSP14 purchase	MBS6205955 is an antibody targeting DUSP14. Also known as DUSP14 (Dual Specificity Phosphatase 14, MKP-L, MKP6) (MaxLight 490). Host: Mous

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP14. It may not necessarily be applicable to this product.

NCBI GI #	12653205
NCBI GeneID	11072
NCBI Accession #	AAH00370
UniProt Related Accession #	O95147
NCBI Official Full Name	Dual specificity phosphatase 14
NCBI Official Synonym Full Names	dual specificity phosphatase 14
NCBI Official Symbol	DUSP14
NCBI Official Synonym Symbols	MKP6; MKP-L
Protein Family	Dual specificity protein phosphatase
NCBI Protein Information	dual specificity protein phosphatase 14
NCBI Summary for DUSP14	Dual-specificity phosphatases (DUSPs) constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. They have been implicated as major modulators of critical signaling pathways. DUSP14 contains the consensus DUSP C-terminal catalytic domain but lacks the N-terminal CH2 domain found in the MKP (mitogen-activated protein kinase phosphatase) class of DUSPs (see MIM 600714) (summary by Patterson et al., 2009 [PubMed 19228121]).[supplied by OMIM, Dec 2009]
Research Articles on DUSP14	**1.** Hepatocyte DUSP14 is required for maintaining hepatic metabolic homeostasis and for suppressing inflammation, a novel function that relies on constraining TAK1 hyperactivation
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