



Mouse anti-Human DUSP4 monoclonal antibody, clone 2E23 (CABT-B10146)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	DUSP4 (AAH02671, 1 a.a. ~ 395 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG3
Source/Host	Mouse
Species Reactivity	Human
Clone	2E23
Conjugate	Unconjugated
Applications	WB,IF,sELISA,ELISA
Sequence Similarities	MVTMEELREMDCSVLKRLMNRDENGSGGAGGSGSHGTLGLPSGGKCLLLDCRPFLAHSAGY ILGSVNVRCNTIVRRRAKGSVSLEQILPAEEVVRARLRSGLYSAVIVYDERSPRAESLRE DSTVSLVVQALRRNAERTDICLLKGGYERFSSEYPEFCSTKALAAIPPPVPPSATEPLD LGCSSCGTPLHDQGGPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHY QYKCIPVEDNHNKADI
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	<p>The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported. [provided by RefSeq, Jul 2008]</p>
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Keywords	<p>DUSP4; dual specificity phosphatase 4; TYP; HVH2; MKP2; MKP-2; dual specificity protein phosphatase 4; MAP kinase phosphatase 2; VH1 homologous phosphatase 2; dual specificity protein phosphatase hVH2; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 2;</p>
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GENE INFORMATION

Entrez Gene ID	<p>1846</p>
UniProt ID	<p>Q13115</p>
Pathway	<p>Activated TLR4 signalling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; ERK/MAPK targets, organism-specific biosystem; ERKs are inactivated, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immunity Signaling, organism-specific biosystem</p>
Function	<p>MAP kinase tyrosine/serine/threonine phosphatase activity; hydrolase activity; protein tyrosine phosphatase activity; protein tyrosine/threonine phosphatase activity</p>