



Anti-DUSP4 (full length) polyclonal antibody (DPAB-DC793)

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

PRODUCT INFORMATION

Antigen Description

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.

Immunogen

DUSP4 (AAH02671, 1 a.a. ~ 394 a.a) full-length recombinant protein with GST tag. The sequence is
 MVTMEELREMDCSVLKRLMNRDENGGAGGSGSHGTLGLPSGGKCLLDCRPFLAHSAGY
 ILGSVNVRCNTIVRRRAKGSVSLEQILPAEEEVRARLRSGLYSAVIVYDERSPRAESLRE
 DSTVSLVVQALRNAERTDICLLKGGYERFSSEYPEFCSKTKALAAIPPPVPPSATEPLD
 LGCSSCGTPLHDQGGPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHY
 QYKCIPIVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKR
 VRLEEAFFVKQRRSIISPNSFMGQLLQFESQVLATSCAAEAASPSGPLRERGKTPATP
 TSQFVFSFPVSVGVSAPSSLPYLHSPITTSPSC

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size	50 μ l
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	DUSP4 dual specificity phosphatase 4 [Homo sapiens (human)]
Official Symbol	DUSP4
Synonyms	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;
Entrez Gene ID	1846
Protein Refseq	NP_001385
UniProt ID	Q13115
Chromosome Location	8p12-p11
Pathway	Activated TLR4 signalling; ERK/MAPK targets; Immune System; MAP kinase activation in TLR cascade.
Function	MAP kinase tyrosine/serine/threonine phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity; protein tyrosine/threonine phosphatase activity