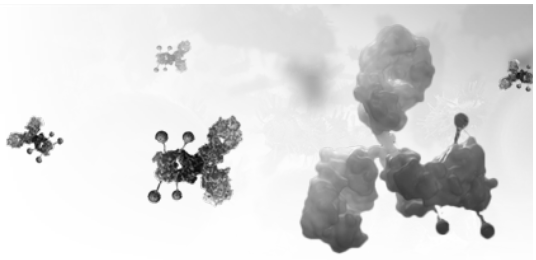

Anti-MAPK7 monoclonal antibody, clone 6D8 (DCABH-744)

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

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to ERK5
Antigen Description	Plays a role in various cellular processes such as proliferation, differentiation and cell survival. The upstream activator of MAPK7 is the MAPK kinase MAP2K5. Upon activation, it translocates to the nucleus and phosphorylates various downstream targets including MEF2C. EGF activates MAPK7 through a Ras-independent and MAP2K5-dependent pathway. May have a role in muscle cell differentiation. May be important for endothelial function and maintenance of blood vessel integrity. MAP2K5 and MAPK7 interact specifically with one another and not with MEK1/ERK1 or MEK2/ERK2 pathways.
Immunogen	Recombinant full length protein, corresponding to amino acids 1-816 of Human ERK5, produced in HEK293T cells (NP_002740).
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	6D8
Purification	Purified from Mouse ascites fluids by affinity chromatography.
Conjugate	Unconjugated
Applications	WB, ICC/IF
Positive Control	ERK5 transfected HEK293T cell lysate and COS7 cells transiently transfected with ERK5.
Format	Liquid

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Size	100 µl
Buffer	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 48% PBS, 1% BSA, 50% Glycerol
Preservative	0.02% Sodium Azide
Storage	store at -20°C. Avoid freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	MAPK7 mitogen-activated protein kinase 7 [Homo sapiens]
Official Symbol	MAPK7
Synonyms	MAPK7; mitogen-activated protein kinase 7; PRKM7; BMK1; BMK1 kinase; ERK5; extracellular signal regulated kinase 5; BMK-1; ERK-5; MAPK 7; MAP kinase 7; big MAP kinase 1; extracellular signal-regulated kinase 5; extracellular-signal-regulated kinase 5; ERK
Entrez Gene ID	5598
Protein Refseq	NP_002740
UniProt ID	A0A024QZ20
Chromosome Location	17p11.2
Pathway	Activated TLR4 signalling, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; ERK/MAPK targets, organism-specific biosystem; ERKs are inactivated, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Gap junction, organism-specific biosystem.
Function	ATP binding; MAP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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