Data Sheet (Cat.No.TMAB-00638)

Anti-ERK5 Antibody (6Y531)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat)
Molecular Weight:	Theoretical: 90 kDa. Actual: 110 kDa.
Clone:	6Y531
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Testis (Mouse) Lysate at 40 µg Hela (Human) Cell Lysate at 30 µg Primary: Anti-ERK5 (TMAB-00638) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kDa Observed band size: 110 kDa 2. Blocking buffer: 5% NFDM/TBST Primary dilution: 1:2000 Primary incubation condition: 2 hours at room temperature Secondary: Goat Anti-Rabbit IgG H&L (HRP) Lysate: 1: MCF-7, 2: 293T, 3: NIH/3T3, 4: PC- 12 Protein loading quantity: 20 µg Exposure time: 60 s Predicted MW: 88 kDa Observed MW: 115 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: human ERK5 protein, around C-terminal 200aa
Antigen Species:	Human
Gene ID:	5598
Uniprot ID:	Q13164
Synonyms:	Mitogen-activated protein kinase 7;PRKM7;MAP kinase 7;Mitogen Activated Protein Kinase 7; Extracellular Signal Regulated Kinase 5;ERK 5;BMK1;Extracellular signal-regulated kinase 5; BMK 1 kinase;Big MAP kinase 1;MAPK 7;EC 2.7.11.24;BMK 1;ERK4;PRKM 7;BMK1 Kinase;PROTEIN KINASE, MITOGEN-ACTIVATED, 7;MK07;MAPK7;OTTHUMP00000065906;OTTHUMP00000065907;

ERK 4

Biology Area: Neural Signal Transduction,Kinases,MAPK Pathway,Other Kinases

Research Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracelluar signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

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