

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for TA502150S

# ERK5 (MAPK7) Mouse Monoclonal Antibody [Clone ID: OTI3D4]

## **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI3D4
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:200~500, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MAPK7 (NP_002740) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.35 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	88.2 kDa
Gene Name:	mitogen-activated protein kinase 7
Database Link:	<u>NP_002740</u> <u>Entrez Gene 23939 MouseEntrez Gene 114509 RatEntrez Gene 5598 Human</u> <u>Q13164</u>



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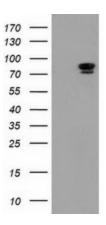
	ERK5 (MAPK7) Mouse Monoclonal Antibody [Clone ID: OTI3D4] – TA502150S
Background:	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, 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]
Synonyms:	BMK1; ERK4; ERK5; PRKM7
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathway	s: Gap junction, GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling

### **Product images:**

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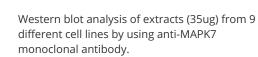
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HepG2 HeLa HT29 A549 COS7 Jurkat MDCK PC12 MCF7

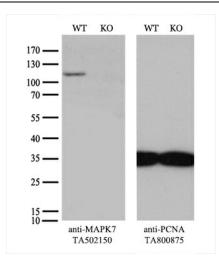
pathway

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAPK7 (Cat# [RC203506], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAPK7(Cat# [TA502150]). Positive lysates [LY419130] (100ug) and [LC419130] (20ug) can be purchased separately from OriGene.

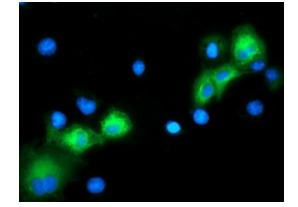


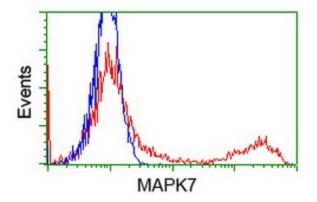
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Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and MAPK7-Knockout HeLa cells (KO, Cat# [LC830793]) were separated by SDS-PAGE and immunoblotted with anti-MAPK7 monoclonal antibody [TA502150] (1:200). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.





Anti-MAPK7 mouse monoclonal antibody ([TA502150]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MAPK7 ([RC203506]).

HEK293T cells transfected with either [RC203506] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-MAPK7 antibody ([TA502150]), and then analyzed by flow cytometry.

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