

Product datasheet for CF502149

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

ERK5 (MAPK7) Mouse Monoclonal Antibody [Clone ID: OTI4F9]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI4F9
Applications: FC, IF, WB

Recommended Dilution: WB 1:500~2000, IF 1:100, FLOW 1:100

Reactivity: Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human MAPK7 (NP_002740) produced in HEK293T

cell

Formulation: Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)

Reconstitution Method: For reconstitution, we recommend adding 100uL distilled water to a final antibody

concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)

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: NP 002740

Entrez Gene 23939 MouseEntrez Gene 114509 RatEntrez Gene 5598 Human

Q13164





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]

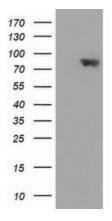
Synonyms: BMK1; ERK4; ERK5; PRKM7

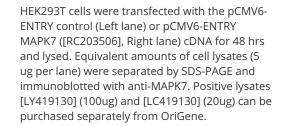
Protein Families: Druggable Genome, Protein Kinase

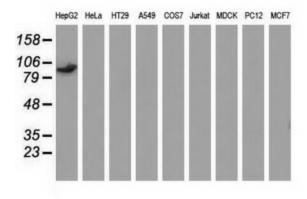
Protein Pathways: Gap junction, GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling

pathway

Product images:

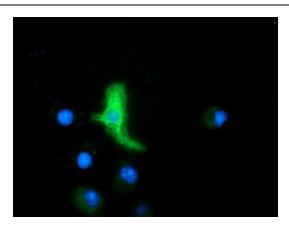




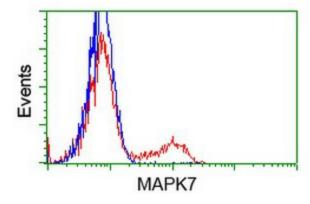


Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-MAPK7 monoclonal antibody.





Anti-MAPK7 mouse monoclonal antibody ([TA502149]) 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 ([TA502149]), and then analyzed by flow cytometry.