

Product datasheet for **CF501085**

MAPK11 Mouse Monoclonal Antibody [Clone ID: OT11C2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OT11C2
Applications:	IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MAPK11 (NP_002742) 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:	41.4 kDa
Gene Name:	mitogen-activated protein kinase 11
Database Link:	NP_002742 Entrez Gene 689314 Rat Entrez Gene 5600 Human Q15759



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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 most closely related to p38 MAP kinase, both of which can be activated by proinflammatory cytokines and environmental stress. This kinase is activated through its phosphorylation by MAP kinase kinases (MKKs), preferably by MKK6. Transcription factor ATF2/CREB2 has been shown to be a substrate of this kinase.

Synonyms:

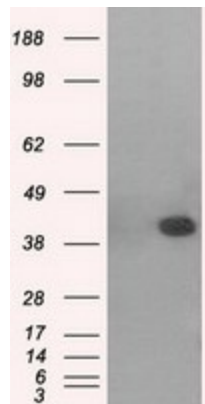
p38-2; P38B; p38Beta; P38BETA2; PRKM11; SAPK2; SAPK2B

Protein Families:

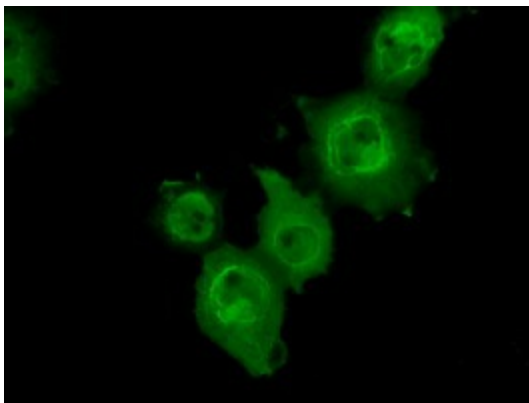
Druggable Genome, Protein Kinase

Protein Pathways:

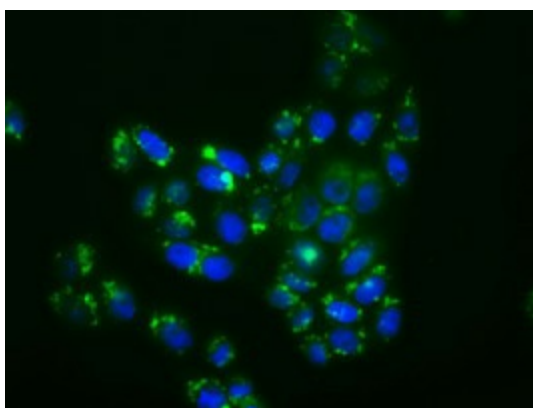
Amyotrophic lateral sclerosis (ALS), Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway

Product images:

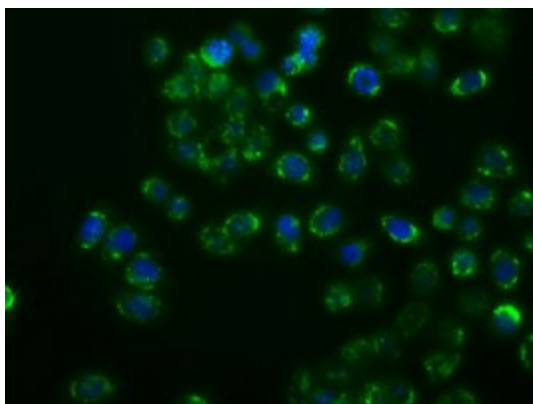
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAPK11 (Cat# [RC206583], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAPK11 (Cat# [TA501085]). Positive lysates [LY400971] (100ug) and [LC400971] (20ug) can be purchased separately from OriGene.



Anti-MAPK11 mouse monoclonal antibody ([TA501085]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MAPK11 ([RC206583]).



Immunofluorescent staining of HeLa cells using anti-MAPK11 mouse monoclonal antibody ([TA501085]).



Immunofluorescent staining of HT29 cells using anti-MAPK11 mouse monoclonal antibody ([TA501085]).