

OriGene Technologies, Inc.

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

Product datasheet for TA326349

p38 (MAPK14) Mouse Monoclonal Antibody [Clone ID: 9F12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9F12
Applications:	IF, WB
Recommend Dilution:	WB: 1:1000
Reactivity:	Human, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length recombinant protein expressed in E.coli cells.
Formulation:	PBS, 50% glycerol
Concentration:	1 mg/ml
Purification:	Protein G Purified
Gene Name:	mitogen-activated protein kinase 14
Database Link:	NP 001306 Entrez Gene 81649 RatEntrez Gene 1432 Human



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2020 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

SRIGENE p38 (MAPK14) Mouse Monoclonal Antibody [Clone ID: 9F12] – TA326349

Background:	The MAPK (mitogen activated protein kinase) comprises a family of ubiquitous praline- directed, proteinserine/ threonine kinases which signal transduction pathways that control
	intracellular events including acute responses to hormones and major developmental
	changes in organisms . This super family consists of stress activated protein kinases (SAPKs);
	extracellular signal-regulated kinases (ERKs); and p38 kinases, each of which forms a separate
	pathway . The kinase members that populate each pathway are sequentially activated by
	phosphorylation. Upon activation, p38 MAPK/SAPK2 translocates into the nucleus where it
	phosphorylates one or more nuclear substrates, effecting transcriptional changes and other
	cellular processes involved in cell growth, division, differentiation, inflammation, and death .
	Specifically p38 always acts as a pro-apoptotic factor with its activation leading to the release
	of cytochrome c from mitochondria and cleavage of caspase 3 and its downstream effector,
	PARP . p38 MAPK is activated by a variety of chemical stress inducers including hydrogen
	peroxide, heavy metals, anisomycin, sodium salicylate, LPS, and biological stress signals such
	as tumor necrosis factor, interleukin-1, ionizing and UV irradiation, hyperosmotic stress and
	chemotherapeutic drugs . As a result, p38 alpha has been widely validated as a target for
	inflammatory disease including rheumatoid arthritis, COPD and psoriasis and has also been
	implicated in cancer, CNS and diabetes .
Synonyms:	CSBP; CSBP1; CSBP2; CSPB1; EXIP; Mxi2; p38; p38ALPHA; PRKM14; PRKM15; RK; SAPK2A
Note:	Detects a ~38kDa protein corresponding to the molecular mass of p38a MAPK on SDS PAGE immunoblots.
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:



Multi-blot analysis of p38Alpha MAPKinase in cell lysate from 12 human cancer cell lines using a 1:1000 dilution of the antibody

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2020 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US 



p38 MAPKinase visualized on a retinal injury model using the antibody

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2020 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US