

Product datasheet for **AP20851PU-M**

p38 (MAPK14) pTyr182 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of p-p38 protein only when phosphorylated at Tyr182.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~42 kDa
Gene Name:	mitogen-activated protein kinase 14
Database Link:	<u>Entrez Gene 26416 Mouse</u> <u>Entrez Gene 81649 Rat</u> <u>Entrez Gene 1432 Human</u> <u>Q16539</u>



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Background:

MAP (mitogen-activated protein) kinases play a significant role in many biological processes, including cell adhesion and spreading, cell differentiation and apoptosis. p38alpha, p38beta and p38gamma, also known as MAPK14, MAPK11 and MAPK12, respectively, each contain one protein kinase domain and belong to the MAP kinase family. Expressed in different areas throughout the body with common expression patterns in heart, p38 proteins use magnesium as a cofactor to catalyze the ATP-dependent phosphorylation of target proteins. Via their catalytic activity, p38alpha, p38beta and p38gamma are involved in a variety of events throughout the cell, including signal transduction pathways, cytokine production and cell proliferation and differentiation. The p38 proteins are subject to phosphorylation on Thr and Tyr residues, an event which is thought to activate the phosphorylated protein.

Synonyms:

MAPK14, MAPK11, MAPK12, CSBP, CSBP1, CSBP2, CSPB1, MXI2, PRKM11, SAPK2, p38 alpha, p38 beta, p38 gamma, p38-2, ERK6, SAPK3

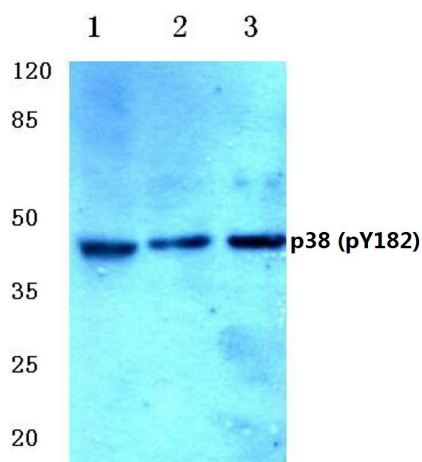
Protein Families:

Druggable Genome, Protein Kinase

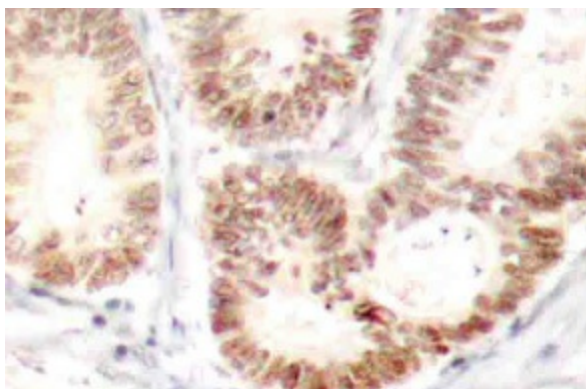
Protein Pathways:

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:



Western blot (WB) analysis of p-p38 antibody (Cat.-No.: [AP20851PU-N]) at 1/500 dilution Lane 1: MCF-7 whole cell lysate treated with H₂O₂ Lane 2: Mouse muscle tissue lysate Lane 3: Rat muscle tissue lysate



Immunohistochemistry analysis of p-p38 Antibody (Cat.-No [AP20851PU-N]) in paraffin-embedded human colon carcinoma tissue.