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Product Datasheet

p38 antibody
orb151872

Description

Rabbit polyclonal to p38 (ATTO-594). The MAPK (mitogen activated protein kinase) comprises a family of ubiquitous praline-directed, protein-serine/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/SAPK2alpha 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..

Species/Host	Rabbit
Reactivity	Bovine, Canine, Gallus, Guinea pig, Hamster, Human, Monkey, Mouse, Porcine, Rabbit, Rat, Sheep
Conjugation	ATTO-594
Tested Applications	ICC, IHC, IP, WB
Immunogen	A 20 residue synthetic peptide based on the human p38 with the cysteine residue added and coupled to KLH
Target	p38
Concentration	1 mg/ml
Preservatives	PBS pH 7.4, 50% glycerol, 0.09% sodium azide *Storage buffer may change when conjugated
Storage	Conjugated antibodies should be stored at 4°C
Note	For research use only.
Clonality	Polyclonal
MW	43kDa
Uniprot ID	Q16539
NCBI	1432 , NP_001306.1
Entrez	1432
Dilution Range	WB (1:1000), ICC/IF (1:100), IP (1:250)
Expiration Date	12 months from date of receipt.
Application Notes	A 1:1000 dilution of SPC-172 was sufficient for detection of p38 in 20 µg of HeLa cell lysate by ECL immunoblot analysis.