

Datasheet for ABIN966521
anti-MAPK10 antibody



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6 Publications

Overview

Quantity:	0.1 mg
Target:	MAPK10
Reactivity:	Human
Host:	Please inquire
Clonality:	Monoclonal
Conjugate:	This MAPK10 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Isotype:	IgG1
Specificity:	Ni-NTA purified truncated recombinant MAPK10 expressed in E. Coli strain BL21 (DE3)
Purification:	Antibodies are purified by protein A affinity chromatography

Target Details

Target:	MAPK10
Alternative Name:	MAPK10 (MAPK10 Products)
Background:	MAPK10 (mitogen-activated protein kinase 10), also called JNK3, which is located on chromosome 4q22.1q23, JNK is an important contributor to stress-induced apoptosis, its isoforms (JNK1, JNK2, and JNK3) have distinct roles in cerebral ischemia. JNK1 is the major isoform responsible for the high level of basal JNK activity in the brain. In contrast, targeted deletion of Jnk3 not only reduces the stress-induced JNK activity, but also protects mice from

Target Details

brain injury after cerebral ischemia/hypoxia. The downstream mechanism of JNK3-mediated apoptosis include the induction of Bim and Fas and the mitochondrial release of cytochrome c. which suggest that JNK3 is a potential target for neuroprotection therapies in stroke. JNK3 is crucial for neuronal apoptosis (stress-induced) and selectively expressed in the nervous system and heart.

Gene ID: 5602

Pathways: [MAPK Signaling](#), [WNT Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Activation of Innate immune Response](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#)

Application Details

Application Notes: Western Blot: 1: 500- 1: 1,000
ELISA: Propose dilution 1: 10,000 Determining optimal working dilutions by titration test.

Restrictions: For Research Use only

Handling

Storage: -20 °C

Publications

Product cited in: Irving, Bamford: "Role of mitogen- and stress-activated kinases in ischemic injury." in: **Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism**, Vol. 22, Issue 6, pp. 631-47, (2002) ([PubMed](#)).

Cuenda: "Mitogen-activated protein kinase kinase 4 (MKK4)." in: **The international journal of biochemistry & cell biology**, Vol. 32, Issue 6, pp. 581-7, (2000) ([PubMed](#)).

Kuan, Yang, Samanta Roy, Davis, Rakic, Flavell: "The Jnk1 and Jnk2 protein kinases are required for regional specific apoptosis during early brain development." in: **Neuron**, Vol. 22, Issue 4, pp. 667-76, (1999) ([PubMed](#)).

Gupta, Barrett, Whitmarsh, Cavanagh, Sluss, Dérjard, Davis: "Selective interaction of JNK protein kinase isoforms with transcription factors." in: **The EMBO journal**, Vol. 15, Issue 11, pp. 2760-70, (1996) ([PubMed](#)).

Publications

Martin, Mohit, Miller: "Developmental expression in the mouse nervous system of the p493F12 SAP kinase." in: **Brain research. Molecular brain research**, Vol. 35, Issue 1-2, pp. 47-57, (1996) ([PubMed](#)).

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