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Product datasheet for AM00080PU-N

JNK3 (MAPK10) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 4G6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4G6
Applications:	WB
Recommended Dilution:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended buffer: Casein/Tween 20 based blocking and blot incubation buffer. Use cell lysate from untreated SH-SY5Y cells delivered with this product as positive control: see protocol below!
Reactivity:	Human
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Peptide conjugated to hemocyanin Epitope: N-terminus
Specificity:	Antibody AM00080PU-N specifically interacts with the N-terminus of SAPK1 beta/jnk3 kinase. Shows no cross-reactivity with jnk1 or jnk2
Formulation:	2 x PBS / 0.09 % Na-azide / PEG and Sucrose State: Purified State: Lyophilized Ig fraction
Reconstitution Method:	Restore with 1 ml H2O (15 min, RT).
Purification:	Purified from serum-free cell culture supernatant by subsequent ultrafiltration and size exclusion chromatography
Conjugation:	Unconjugated
Storage:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -20°C to -80°C. Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months. Avoid repeated freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.

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Gene Name: mitogen-activated protein kinase 10

Database Link: Entrez Gene 5602 Human
P53779

Background: Stress-activated Protein Kinases (SAPKs) are strongly activated in response to adverse stimuli such as heat and osmotic shock, UV light and other DNA-damaging reagents, and inhibitors of protein synthesis. They are also activated strongly in response to agonists that are released or produced under conditions of stress, such as proinflammatory cytokines. The SAPK1/jnk family consists of 3 isoforms: SAPK1alpha/jnk2; SAPK1beta/jnk3; SAPK1gamma/jnk1.

Synonyms: Stress-activated protein kinase JNK3, c-Jun N-terminal kinase 3, JNK3A, PRKM10, MAP kinase p49 3F12

Note: A positive control is provided (for details see protocol below).

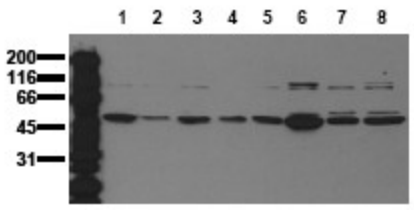
Protocol: Positive Control Cell Lysate: Untreated SH-SY5Y

Format: Lyophilized cell lysate from serum starved SH-SY5Y cells.
Reconstitute by addition of 200 µl H20. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min. Aliquote and store frozen. Avoid repeated freeze/thaw cycles.

Applications: The positive control cell lysate is recommended for immunoblot applications.
20 µl of positive control cell lysate correspond to ca. 20.000 cells.
Use 20 µl / lane (mini gel) for HRPO/ECL detection of the target proteins.

Please note: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.

Product images:



Detection of endogenous SAPK1 beta Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with mab SAPK1b/jnk3-4G6 (0.5 ug/ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: A431; lane 2: A549; lane 3: SKOV3; lane 4: OVCAR5; lane 5: HaCaT; lane 6: PC3; lane 7: HeLa; lane 8: HepG2