

Product datasheet for **AM00079PU-N**

JNK2 (MAPK9) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 12C5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	12C5
Applications:	ELISA, IHC, WB
Recommended Dilution:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. ELISA: 0.05 g/ml. Immunohistochemistry. <i>Included Positive Control:</i> Cell lysate from untreated A431 cells (See Protocol) .
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH. Epitope: N-terminus
Specificity:	This antibody specifically interacts with the N-terminus of SAPK1α/jnk2 kinases.
Formulation:	1 ml PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent thiophilic adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	54 kDa
Gene Name:	mitogen-activated protein kinase 9



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Database Link: [Entrez Gene 5601 Human P45984](#)

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: SAPK1 α /jnk2; SAPK1 β /jnk3; SAPK1 γ /jnk1.

Synonyms: JNK-55, PRKM9, MAP kinase 9

Note: Protocol: **Positive Control Cell Lysate (A431 Untreated)**

Formulation: Lyophilized cell lysate from serum starved A431 Cells.

Reconstitution: Restore by Addition of 200 μ l Water. After complete solubilization Add 200 μ l 2x SDS-PAGE Sample Buffer, mix and incubate at 90°C for 5 mn.

Storage: Aliquote and store frozen.
Avoid repeated freeze/thaw cycles.
Shelf life: one year from despatch.

Application: The Positive Control is recommended for Immunoblot (20 μ l of Positive Control Cell lysate corresponds to ~ 20.000 Cells).

Use μ l /lane (mini gel) for HRPO/ECL detection of the target proteins.

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

Product images:

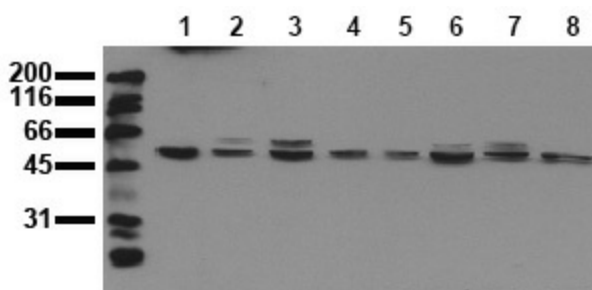


Figure 1. Detection of endogenous SAPK1alpha. Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab SAPK1 α /jnk2-12C5 (0.5 μ g/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: A431; lane 2: A549; lane 3: SKOV3; lane 4: OVCAR5; lane 5: HaCaT; lane 6: PC3; lane 7: HeLa; lane 8: HepG2