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Datasheet for ABIN2798348 anti-MAPK11 antibody (N-Term)

Validation



Overview

Quantity:	400 µL
Target:	MAPK11
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAPK11 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Rabbit Anti-Mouse Mapk11 (N-term) Antibody
Immunogen:	This Mouse Mapk11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of mouse Mapk11.
lsotype:	Ig Fraction

Target Details

Target:	MAPK11	
Alternative Name:	Mapk11 (MAPK11 Products)	
Background:	Target Description: Kinase involved in a signal transduction pathway that is activated by changes in the osmolarity of the extracellular environment, by cytokines, or by environmental	
	stress. Phosphorylates preferentially transcription factor ATF2 (By similarity).	iental

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Target Details

	Gene Symbol: Mapk11
Molecular Weight:	41397 Da
Gene ID:	19094
UniProt:	Q9WUI1
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Response to Water Deprivation, Regulation of Muscle Cell Differentiation, ER-Nucleus Signaling, Hepatitis C, Toll-Like Receptors Cascades, Signaling Events mediated by VEGFR1 and VEGFR2, Thromboxane A2 Receptor Signaling, BCR Signaling, S100 Proteins
Application Details	

Application Notes:	Western Blot, Immunohistochemistry
	Recommended Dilutions
	WB: 1:1000, IHC: 1:10-50Western blot analysis of lysate from mouse NIH/3T3 cell line, using
	Mouse Mapk11 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been
	evaluated.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C
Storage Comment:	2-8°C (short-term), -20°C (long-term)





Successfully validated (Western Blotting (WB))

by Instituto de Parasitología y Biomedicina López-Neyra Report Number: 100108 Date: Dec 23 2016

Target:	MAPK11
Lot Number:	RAY8110713
Method validated:	Western Blotting (WB)
Positive Control:	primary mouse microglia
Negative Control:	siRNA knock-down of MAPK11 in primary mouse microglia
Notes:	Passed. ABIN2798348 specifically recognizes Mapk11 in primary mouse microglia lysates.
Primary Antibody:	ABIN2798348
Secondary Antibody:	anti-rabbit HRP-conjugated antibodies (DakoCytomation, P0448, lot 00055814)
Protocol:	 Primary mouse microglia are grown in DMEM (Invitrogen), supplemented with 10% foetal bovine serum (Gibco), 10% horse serum and penicillin and streptomycin (Gibco), at 37°C and 5% CO2 in a 12-well dish. Transfect cells with 0.05nmol mouse MAPK11 Silencer Select siRNA (ThermoFisher Scientific, Sample ID ASO10943, ASO1098J and ASO109CX, lot AMO04BXD) using Lipofectamine 3000 (Invitrogen) following the manufacturer's instructions. Lyse cells in 25µl per well cold lysis buffer (10mM Tris-HCl pH 8.0, 150mM NaCl, 1% Nonidet-P40, 1mM EDTA, 10mM NaF, 1mM Na₃VO₄, protease inhibitors (Sigma). Determine total protein content of the lysates using Bradford assay (Bio-Rad, 500-0006, lot 111832). Denature 5µg total protein for 5min at 95°C in 5µl Laemmli SDS sample buffer and subsequently separate them on a denaturing freshly cast 10% SDS-PAGE for 1h at 140V. Transfer proteins onto PVDF membrane (Pall Life Sciences, 75696G, lot TO3225) with a semi-dry Western blotting system for 50min at 60mA. Block the membrane with TBST (TBS, 0.1% Tween) containing 5% milk ON at 4°C. Incubation with primary rabbit anti-MAPK11 antibody (antibodies-online, ABIN2798348, lot RAY8110713) diluted 1:500 in TBST containing 5% milk for 1h at RT. Wash membrane 5x 5min with TBST. Wash membrane 5x 5min with TBST and 3x 5min with TBS.

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	Reveal protein bands using ECL Prime Western Blotting Detection Reagent (GE Healthcare,
	RPN2232, lot 9547481) with Curix RP2 Plus medical X-ray films (AGFA Health Care, ENKMV,
	lot 79040074) on an AGFA Health Care Curix60-developer.
	Strip membranes RestoreTM Western Blot Stripping Buffer (Thermo Scientific, 21059, lot NA
	164269) and subsequently incubate with a GAPDH loading control antibody (Sigma, G9545,
	lot 049K4787) diluted 1:10000 and with anti-rabbit horseradish peroxidase-conjugated
	secondary antibodies (DakoCytomation, P0448, lot 00055814) diluted 1:2000.
	\cdot Wash and reveal the protein bands using self-made ECL Western Blotting Detection Reagent
	with Curix RP2 Plus medical X-ray films (AGFA Health Care, ENKMV, lot 79040074) on an
	AGFA Health Care Curix60-developer.
Experimental Notes:	The MAPK11 antibody ABIN2798348 reveals a protein of the expected molecular weight of
	murine Mapk11 in lysates of primary mouse microglia. The protein band's intensity decreases
	upon siRNA knockdown.

Image for Validation report #100108



Validation image no. 1 for anti-Mitogen-Activated Protein Kinase 11 (MAPK11) (AA 1-30), (N-Term) antibody (ABIN2798348)

Primary mouse microglia were transfected with Mapk11 siRNA and Mapk11 was revealed using ABIN2798348 as described in the protocol section (lanes 1, 2, and 3). Lysates from cells transfected with scrambled siRNA (lane 4) and untransfected cells (lane 5) served as negative controls.

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