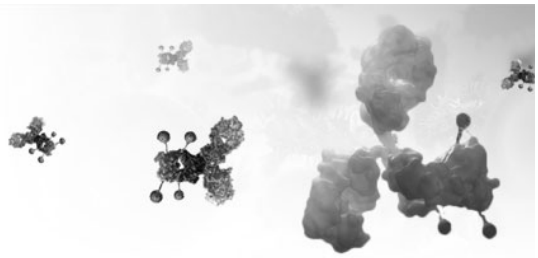

Mouse Anti-MAPK14 Hybridoma [10G13] (CSC-LS02)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	PRKM14
Immunogen	Full-length recombinant protein expressed in E. Coli cells. The purity was determined to be >90% by densitometry. Approx. MW 38kDa.
Isotype	IgG1
Species	Human
Clone	10G13
Application	, ELISA, WB, IP, ICC, FC,
Format	Frozen
Storage	Store in liquid nitrogen.
Cell Line Description	2 x 10^6 – 2 x 10^7 cells/ml in freezing media. 10% dimethylsulfoxide (DMSO) and 90% Fetal Bovine Serum (FBS). Product is frozen. Tested for cross reactivity with closely related human kinases. No cross reactivity detected.
Myeloma	SP2/0 Mus musculus
Fusion Species	Mouse X Mouse Hybridoma
Growth Properties	suspension
Morphology	lymphoblast
Culture Medium	DMEM +5-10% FBS

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BACKGROUND

Introduction

P38α(SAPK2A) encoded by the MAPK14 gene is a member of the P38 MAPK family which are activated by various environmental stresses and proinflammatory cytokines. The activation of p38 requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of p38 include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response.

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