RD SYSTEMS a biotechne brand

Human/Mouse MafK Antibody

Monoclonal Mouse IgG_{2B} Clone # 381923 Catalog Number: MAB3809

DESCRIPTION **Species Reactivity** Human/Mouse Specificity Detects human and mouse MafK in Western blots. In Western blots, no cross-reactivity with recombinant human (rh) MafB or rhMafF is observed. In Western blots, prolonged film exposures may slightly detect rhMafG. Source Monoclonal Mouse IgG_{2B} Clone # 381923 Purification Protein A or G purified from hybridoma culture supernatant Immunogen E. coli-derived recombinant human MafK Thr2-Ser156 Accession # O60675 Formulation Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA

Wes	tern E	Blot			
kDa	rhMafB rhMafF	rhMafG rhMafK	A549	1	Detection of H Western blot sho cell line. PVDF r
122 — 94 — 65 —					Anti-Human/Mo
65 — 39 —					MAB3809) follow Secondary Antib reference, recon MafK (0.5 ng/lar
23 —					was detected at experiment was
19 —				— MafK	using Immunob
7 —					

Detection of Human/Mouse MafK by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line. PVDF membrane was probed with 2 µg/mL Mouse Anti-Human/Mouse MafK Monoclonal Antibody (Catalog # MAB3809) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human MafB, MafF, MafG, and MafK (0.5 ng/lane) were included. A specific band for MafK was detected at approximately 18 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

PREPARATION AND S	Reconstitute at 0.5 mg/mL in sterile PBS.				
Reconstitution	Reconstitute at 0.5 mg/mL in steme PDS.				
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.				
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 $^\circ$ C				
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.				
	 12 months from date of receipt, -20 to -70 °C as supplied. 				
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 				
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 				

BACKGROUND

Maf family members form a unique subclass of basic-leucine zipper (bZIP) transcription factors. Maf proteins are subdivided into two groupings: large, including c-Maf, Nrl, MafA, and MafB; and small, including MafF, MafG, and MafK, also known as p18. Large Mafs contain an N-terminal acidic domain important for transcriptional activation that is lacking in small Maf family members. Heterodimers of MafK and p45 NF-E2, another bZIP factor, promote globin gene expression and erythroid differentiation in erythroleukemia cells.

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