

Human/Mouse Sulfatase-2/SULF2 Antibody

Monoclonal Mouse IgG₁ Clone # 2B4

Catalog Number: MAB7087

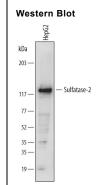
DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects human Sulfatase-2/SULF2 in direct ELISAs and Western blots.		
Source	Monoclonal Mouse IgG ₁ Clone # 2B4		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Recombinant human Sulfatase-2/SULF2, used to immunize a SULF2-deficient mouse Accession # NP_940998		
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	1 μg/mL	See Below

DATA



Detection of Human Sulfatase-2/SULF2 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse Sulfatase-2/SULF2 Monoclonal Antibody (Catalog # MAB7087) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Sulfatase-2/SULF2 at approximately 130 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE		
Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.	
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 °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

Sulfatase 2 (SULF2) is a 132 kDa calcium-binding glycoprotein that is one of two extracellular sulfatases (SULFs). SULFs degrade cell surface and extracellular matrix heparin sulfate proteoglycans, altering the binding and signaling of factors such as Wnts and FGFs. Dysregulation of SULF2 is implicated in carcinogenesis. A high molecular weight form (250 kDa) is presumed to be a covalent dimer, while smaller forms (60 kDa and 64 kDa) are produced by proteolytic cleavage. A splicing form, isoform b, differs only in non-coding regions. Within the region used as an immunogen, human SULF2 shares approximately 94% amino acid sequence identity with mouse and rat SULF2, while mouse and rat SULF2 share 98% amino acid sequence identity with each other.

References:

1. Lemjabbar-Alaoui, H. et al. (2010) Oncogene 29:635.

bio-techne[®]