

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
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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