Human/Mouse Sulfamidase/SGSH Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 1018331

Catalog Number: FAB83801N

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human Sulfamidase/SGSH in direct ELISAs. Detects human and mouse Sulfamidase/SGSH in Western blots.
Source	Monoclonal Mouse IgG_{2A} Clone # 1018331
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*Spodoptera frugiperda*, *Sf 21* (baculovirus)-derived human Sulfamidase/SGSH Arg23-Leu502 Accession # P51688
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.
Immunohistochemistry	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

Also known as N-sulfoglucosamine sulfohydrolase and heparan N-sulfatase, Sulfamidase/SGSH is an important member of the sulfatase family involved in the degradation of heparan sulfate (HS) (1). Different from the HS specific endosulfatases that remove sulfate from internal GlcNAc residues (2), SGSH removes sulfate group from the non-reducing end glucosamine residues on HS. The SGSH deficiency results in mucopolysaccharidosis type IIIA (MPS IIIA, Sanfilippo A syndrome), an autosomal recessive lysosomal storage disease characterized by neurological dysfunction but relatively mild somatic manifestations (3). Human SGSH shows 88.6% sequence identity with that of mouse sequence.

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