Human ZEB2/SIP1
Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 923328

Catalog Number: FAB73782U

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ZEB2/SIP1 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 923328
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human ZEB2/SIP1 Asn363-Lys537 Accession # O60315
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	A549 human lung carcinoma cell line fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012)

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

SIP1 (Smad-interacting protein 1), also called ZEB2 (Zinc finger E-box-binding homeobox 2), is a nuclear transcription factor. SIP1 contains seven C2H2-type zinc finger domains within amino acids (aa) 211-334 and 999-1076, a Smad-MHZ binding domain (aa 437-487), an atypical homeobox domain (aa 644-703), and phosphorylation, sumoylation and acetylation sites. The 1214 aa SIP1 gives a calculated molecular weight of 136 kDa, but may actually appear closer to 200 kDa due to modifications. A 1190 aa isoform lacks aa 111-134. Within aa 363-537, human SIP1 shares 98% and 97% aa sequence identity with mouse and rat SIP1, respectively. SIP1 is highly expressed in postmitotic neocortical cells and influences cell fate decisions in embryonic brain development. Point mutations causing underexpression of SIP1 are associated with Mowat-Wilson syndrome (MWIS), also known as Hirschprung disease mental retardation syndrome.

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