Human EVI-1 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 702321

Catalog Number: FAB75061R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human EVI-1 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 702321
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human EVI-1 Gly241-Met430 Accession # Q03112
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.*

Immunocytochemistry	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

Ectopic virus integration site 1 (EVI-1), also known as MECOM, is a 145 kDa is a transcriptional regulator that interacts with GATA2 and histone methyltransferases. EVI-1 contains 7 tandem N-terminal zinc finger regions (aa 21-239), a central region, and a cluster of 3 more zinc fingers (aa 733-812). Longer isoforms have 189 aa or 64 aa N-terminal extensions. EVI-1 target genes are critical to hematopoietic stem cell proliferation and myeloid differentiation. EVI-1 is overexpressed in acute myelogenous leukemia (AML) as well as ovarian cancer. Chromosomal translocations fuse EVI-1 with RUNX1 and RPN1 contribute to chromosomal instability, myeloid leukemia proliferation, and a block in myeloid differentiation. Within aa 241-430, human EVI-1 shares 94% aa sequence identity with mouse and rat EVI-1.

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