

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	<i>E. coli</i> -derived recombinant human EVI-1 Gly241-Met430 Accession # Q03112
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 as a 0.2 µm filtered solution in PBS.

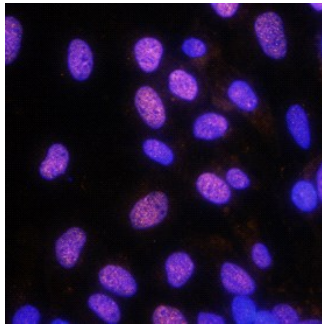
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



EVI-1 in SK-OV-3 Human Cell Line. EVI-1 was detected in immersion fixed SK-OV-3 human ovarian adenocarcinoma cell line using Mouse Anti-Human EVI-1 Monoclonal Antibody (Catalog # MAB75061) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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. <ul style="list-style-type: none"> ● 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

Ectopic virus integration site 1 (EVI-1), also known as MECOM, is a 145 kDa 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.