

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                  |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human EVI-1 in direct ELISAs.                                                  |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 702321                                      |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                             |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human EVI-1<br>Gly241-Met430<br>Accession # Q03112 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm        |
| <b>Formulation</b>                                                                                                                                                                                      | 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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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 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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