

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ZEB1 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 639914
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human ZEB1 Glu430-Ser575 Accession # P37275
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	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
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	MDA-MB-231 human breast cancer cell line

## 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>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

Zinc finger E-box-binding homeobox 1 (ZEB1; also transcription factor 8 (TCF-8)) is a 124 kDa member of the delta-EF1/ZFH-1 C2H2-type zinc finger family. Human ZEB1 is 1124 amino acids (aa) in length. The protein contains seven C2H2-type zinc fingers and one homeobox DNA-binding domain. In addition, there are eight phosphoserines and one phosphothreonine. Residues 989-1124 make up a glutamine-rich area. Within aa 430-575, human ZEB1 shares 84% and 82% aa sequence identity with mouse and rat ZEB1, respectively. The protein is expressed in heart and skeletal muscle, and defects in ZEB1 are the cause of posterior polymorphous corneal dystrophy type 3, a rare disease involving metaplasia and overgrowth of the corneal endothelial cells.

## PRODUCT SPECIFIC NOTICES

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