

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human/Mouse                                                                         |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human and mouse ELF3 in Western blots.                                      |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 662533                                   |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                          |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human ELF3<br>Met1-Gly173<br>Accession # P78545 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 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.

**Western Blot** 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

ELF3 (E74-Like Factor 3), also known as ESE-1, ESX, ERT and JEN, is a 41-43 kDa member of the ETS family of proteins. During uncomplicated (non-inflammatory) periods of cell differentiation, ELF3 is expressed exclusively by epithelial cells, repressing genes needed during early differentiation, and promoting genes needed for full differentiation. Under conditions of inflammation, cells such as monocytes, endothelial cells and chondrocytes express ELF3 and produce molecules such as Ang1 and COX2. Human ELF3 is 371 amino acids (aa) in length. It contains one PNT/pointed dimerization domain (aa 46-132), a protein stabilizing PEST sequence (aa 210-225), an A/T Hook region that binds to AT-rich DNA sequences (aa 236-252), and an ETS DNA binding domain (aa 273-355). ELF3 interacts with CREBBP, EP300, KU70 and KU86. There is one splice variant that shows a deletion of aa 174-200. Over aa 1-173, human ELF3 shares 87% aa identity with mouse ELF3.

## PRODUCT SPECIFIC NOTICES

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