

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human Fes in direct ELISAs and Western blots.                                |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 678527                                    |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                           |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human Fes<br>Ser270-Ala370<br>Accession # P07332 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | 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

Fes (homolog of feline sarcoma oncogene), also called c-FES or c-FPS, is a 92 kDa protein within subgroup IV of the non-receptor tyrosine kinase family. It is expressed in myeloid hematopoietic cells, vascular endothelium and neurons and regulates cell adhesion and extravasation. The 822 amino acid (aa) human Fes contains F-BAR (aa 7-239), SH2 (aa 460-549) and kinase (aa 561-822) domains. The F-BAR domain contains coiled-coil homo-oligomerization and microtubule binding sequences. Within the region used as an immunogen, human Fes shares 85% and 87% aa identity with mouse and rat Fes, respectively. Human isoforms of 764, 752, 694 and 681 aa may be missing aa 72-129 or 441-511 and/or contain an alternate 17 aa for aa 610-640, while an isoform of 891 aa contains 18 and 51 aa inserted after aa 510 and 568.

## PRODUCT SPECIFIC NOTICES

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