

DESCRIPTION

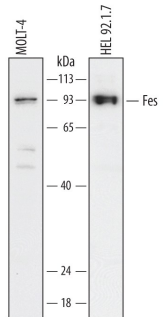
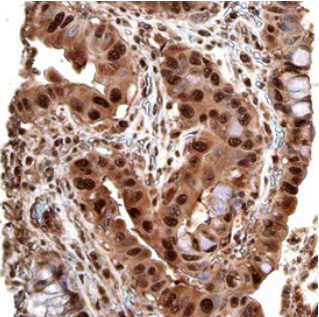
Species Reactivity	Human
Specificity	Detects human Fes in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 678527
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Fes Ser270-Ala370 Accession # P07332
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
Western Blot	0.2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human Fes by Western Blot. Western blot shows lysates of MOLT-4 human acute lymphoblastic leukemia cell line and HEL 92.1.7 human erythroleukemic cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human Fes Monoclonal Antibody (Catalog # MAB6460) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Fes at approximately 93 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>Fes in Human Colon. Fes was detected in immersion fixed paraffin-embedded sections of human colon using Mouse Anti-Human Fes Monoclonal Antibody (Catalog # MAB6460) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Kit & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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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

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.