

Rabbit FES Polyclonal Antibody | anti-FES antibody

Phospho-FES (Tyr713) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329642	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (83%), Bovine (86%), Horse (86%), Sheep (86%), Chicken (83%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

FES; Polyclonal Antibody; Phospho-FES (Tyr713) Antibody; c-fes/fps protein; cFES; Feline sarcoma (Snyder Theilen) viral (v fes)/Fujinami avian sarcoma (PRCII) viral (v fps) oncogene homolog; feline sarcoma (Snyder-Theilen) viral (v-fes)/Fujinami; Feline sarcoma oncogene; Feline sarcoma/Fujinami avian sarcoma oncogene homolog; fes; FES proto oncogene; tyrosine kinase; FES_HUMAN; FPS; Oncogene FES; Oncogene FES feline sarcoma virus; P93c fes; Proto oncogene tyrosine protein kinase Fes/Fps; Proto-oncogene c-Fes; Proto-oncogene c-Fps; proto-oncogene tyrosine-protein kinase Fes/Fps; Tyrosine-protein kinase Fes/Fps; anti-FES antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (83%), Bovine (86%), Horse (86%), Sheep (86%), Chicken (83%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-FES (Tyr713) Antibody detects endogenous levels of FES only when phosphorylated at Tyr713. Tissue Specificity: Widely expressed. Detected in adult colon epithelium (at protein level). Expressed in melanocytes (at protein level).
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-FES antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FES around the phosphorylation site of Tyr713.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autophosphorylated on Tyr-713. Phosphorylated by LYN in response to FCER1 activation. Phosphorylated by HCK.
Subunit Structure	Homooligomer. Interacts with BCR. Interacts (when activated, via coiled coil domain) with TRIM28. Interacts (via SH2 domain) with phosphorylated EZR, MS4A2/FCER1B and HCLS1/HS1. Interacts with phosphorylated KIT. Interacts with FLT3. Interacts (via F-BAR domain) with soluble tubulin. Interacts (via SH2 domain) with microtubules.
Similarity	The coiled coil domains are important for regulating the kinase activity. They mediate homooligomerization and probably also interaction with other proteins. The N-terminal region including the first coiled coil domain mediates interaction with phosphoinositide-containing membranes. Belongs to the protein kinase superfamily. Tyr protein kinase family. Fes/fps subfamily.

Subcellular Location	Cytoplasm>Cytosol. Cytoplasm>Cytoskeleton. Cell membrane>Peripheral membrane protein>Cytoplasmic side. Cytoplasmic vesicle. Golgi apparatus. Cell junction>Focal adhesion. Note: Distributed throughout the cytosol when the kinase is not activated. Association with microtubules requires activation of the kinase activity. Shuttles between focal adhesions and cell-cell contacts in epithelial cells. Recruited to the lateral cell membrane in polarized epithelial cells by interaction with phosphorylated EZR. Detected at tubular membrane structures in the cytoplasm and at the cell periphery.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
 At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemisry)
 At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)
 Staining Rat spleen tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)
 Western blot analysis of c-Fes (Phospho-Tyr713) using HeLa whole cell lysates. -/+ means absence or presence of N peptide¼non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-FES antibody	Tyrosine-protein kinase that acts downstream of cell surface receptors and plays a role in the regulation of the actin cytoskeleton, microtubule assembly, cell attachment and cell spreading. Plays a role in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Acts down-stream of the activated FCER1 receptor and the mast/stem cell growth factor receptor KIT. Plays a role in the regulation of mast cell degranulation. Plays a role in the regulation of cell differentiation and promotes neurite outgrowth in response to NGF signaling. Plays a role in cell scattering and cell migration in response to HGF-induced activation of EZR. Phosphorylates BCR and down-regulates BCR kinase activity. Phosphorylates HCLS1/HS1, PECAM1, STAT3 and TRIM28.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	219842230
NCBI GeneID	2242
NCBI Accession #	NP_001137255.1
NCBI GenBank Nucleotide #	NM_001143783.1
UniProt Accession #	P07332; Q2VXS7; Q2VXS8; Q2VXT0; Q6GTU5; B2R6E6; B4DUD0; E9PC94; E9PC95
Molecular Weight	93,497 Da
NCBI Official Full Name	tyrosine-protein kinase Fes/Fps isoform 2
NCBI Official Synonym Full Names	feline sarcoma oncogene
NCBI Official Symbol	FES
NCBI Official Synonym Symbols	FPS

NCBI Protein Information	tyrosine-protein kinase Fes/Fps; p93c-fes; proto-oncogene c-Fes; proto-oncogene c-Fps; Oncogene FES, feline sarcoma virus; proto-oncogene tyrosine-protein kinase Fes/Fps; feline sarcoma/Fujinami avian sarcoma oncogene homolog; feline sarcoma (Snyder-Theil
UniProt Protein Name	Tyrosine-protein kinase Fes/Fps
UniProt Gene Name	FES
UniProt Synonym Gene Names	FPS
UniProt Entry Name	FES_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/fes-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329642>