ENV Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ENV, Polyclonal Antibody
Full Product Name	Rabbit anti-Friend spleen focus-forming virus (strain Lilly-Steeves)(FSFFV) ENV Polyclonal Antibody
Product Gene Name	anti-ENV antibody
Product Synonym Names	ENV Antibody; Glycoprotein 55; gp55; env
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Friend spleen focus-forming virus (strain Lilly-Steeves)(FSFFV)
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH7.4
Purity/Purification	Antigen-affinity
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	44,700 Da
3D Structure	ModBase 3D Structure for P03394
Immunogen	Recombinant Friend spleen focus-forming virus (strain Lilly-Steeves) (FSFFV) env protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ENV antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-ENV antibody	MBS7164278 is an antibody targeting ENV. Also known as Rabbit anti-Friend spleen focus-forming virus (strain Lilly-Steeves)(FSFFV) ENV Polyclonal Antibody. Reactive in Friend spleen focus-forming virus (strain Lilly-Steeves)(FSFFV). Host: Rabbit.
Other Notes	Small volumes of anti-ENV antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ENV. It may not necessarily be applicable to this product.

NCBI GI #	119382
NCBI Accession #	P03394.1
UniProt Primary Accession #	P03394
NCBI Official Full Name	Glycoprotein 55
UniProt Protein Name	Glycoprotein 55

Protein Family	Envelope glycoprotein
UniProt Gene Name	env
UniProt Synonym Gene Names	gp55
UniProt Entry Name	ENV_FRSFL
UniProt Comments for ENV	Function: This envelope-like membrane glycoprotein is responsible for ligand-independent activation of the erythropoietin receptor EPOR leading to the abnormally rapid proliferation of erythroid precursor cells. In the first stage of Friend disease, constitutive activation of EPOR by gp55 causes uncontrolled, polyclonal proliferation of infected erythroblasts, leading to polycythemia (massive increase in the number of mature red cells). Host susceptibility to SSFV-induced erythroblastosis depends on the expression of the truncated isoform of MST1R receptor tyrosine kinase (MST1R isoform sf-Stk). Interaction with SSFV gp 55 results in constitutive tyrosine phosphorylation and activation of MST1R isoform sf-Stk By similarity. Subunit structure: Homooligomer. Forms heterooligomers with mouse EPOR, probably via their respective transmembrane domains. Forms covalent heterodimers with mouse MST1R isoform sf-Stk, probably via disulfide bonds By similarity. Subcellular location: Host endoplasmic reticulum membrane; Single-pass type I membrane protein. Host cell membrane; Single-pass type I membrane protein. Virion membrane; Single-pass type I membrane protein. Note: The envelope-like membrane glycoprotein gp55 is defective in its transport to the cell surface and remains associated predominantly with the rough endoplasmic reticulum (RER) membrane. It is almost not incorporated into virions. Host cell surface expression appears to be a prerequisite for its leukemogenicity By similarity. Miscellaneous: Compared to other gammaretroviruses which possess 2 envelope proteins (gp70 and p15E), gp55 corresponds to a gp70-p15E fusion protein with a deletion of a portion of p15E. It is encoded by the defective env gene of the virus.The Friend murine leukemia virus complex induces a rapid and fatal erythroleukemia in adult mice. It is the replication-defective spleen focus-forming virus (SFFV) contained in this complex that causes foci of proliferating erythroid cells in spleens of infected mice. The second component is a replication competent Friend murine leukemia virus (F-MuLV) that serves as a helper virus for SFFV.
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