

AB-PN514

ESYT1-pY822 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human ESYT1



KINEXUS

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Target Protein

Name Long:	Extended synaptotagmin-1
Alias:	E-Syt1; ESYT1; Extended synaptotagmin-1; extended synaptotagmin-like protein 1; FAM62A; family with sequence similarity 62 (C2 domain containing), member A; KIAA0747; MBC2; Membrane-bound C2 domain-containing protein
UniProt ID:	Q9BSJ8
Sequence Predicted Mass (KDa):	122.856 (1104 AA; Q9BSJ8-1); 124.003 (1.114 AA; Q9BSJ8-2);
Observed SDS-PAGE Mass (KDa):	130-150

Immunogen

Antibody Immunogen Source:	Human ESYT1 sequence peptide Cat. No.: PE-04AHJ99
Antibody Immunogen Sequence:	LSP(pY)ATL(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues L819 to L825; In the fourth C2 domain. This is the major in vivo phosphorylation site in ESYT1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-822

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	150203
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	
Detection by Immunoblotting in Cell/Tissue Lysates:	Very weak immunoreactivity of a target-sized protein by Western blotting in HepG2 and A431 cells of a ~122 KDa protein, but a slightly stronger 140 KDa immunoreactive protein might be the target.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in HepG2 and A431 cells, but a 75 KDa medium cross-reactive protein can be observed in both cell lines, and a ~50 KDa medium cross-reactive protein in A431 cells.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)