

DATASHEET

ESYT1 Rabbit Polyclonal Antibody

CAT. NO. APA15573

KEY FEATURES

Target	ESYT1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Binds calcium (via the C2 domains) and translocates to sites of contact between the endoplasmic reticulum and the cell membrane in response to increased cytosolic calcium levels and translocates to sites of contact between the endoplasmic reticulum and the cell membrane in response to increased cytosolic calcium levels . Helps tether the endoplasmic reticulum to the cell membrane and promotes the formation of appositions between the endoplasmic reticulum and the cell membrane . Acts as an inhibitor of ADGRD1 G-protein-coupled receptor activity in absence of cytosolic calcium . Binds glycerophospholipids in a barrel-like domain and may play a role in cellular lipid transport .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to ESYT1
Specificity	Recognizes endogenous levels of ESYT1 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human ESYT1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 122; Observed: 123 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	FAM62A; KIAA0747; MBC2; Extended synaptotagmin-1; E-Syt1; Membrane-bound C2 domain-containing protein
Gene Symbol	ESYT1
Entrez Gene	23344(Human); 23943(Mouse); 29579(Rat)
SwissProt	Q9BSJ8(Human); Q3U7R1(Mouse); Q9Z1X1(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

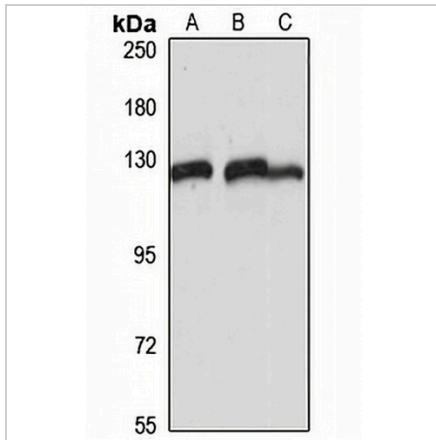
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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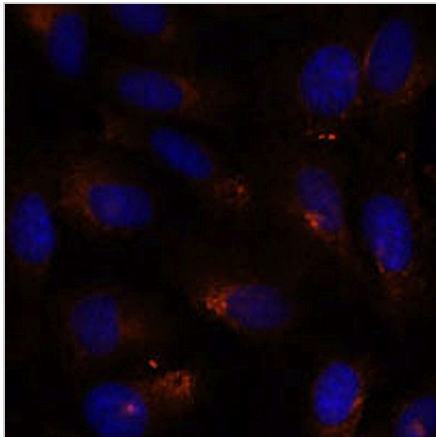
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Western blot analysis of ESYT1 expression in Jurkat (A), HeLa (B), mouse brain (C) whole cell lysates. (Predicted band size: 122; 124 kD; Observed band size: 123 kD)



Immunofluorescent analysis of ESYT1 staining in U2OS cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.