SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-Gamma-Adaptin antibody

Catalog Number: SL1600R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Gamma-Adaptin
Immunogen:	KLH conjugated synthetic peptide derived from human Gamma-Adaptin: 721-822/822
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, Rat, (predicted: Chicken, Dog, Pig, Cow, Rabbit)
Predicted MW.:	91kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	Adaptins are important components of clathrin-coated vesicles transporting ligand-receptor complexes from the plasma membrane or from the trans-Golgi network to lysosomes. The adaptin family of proteins is composed of four classes of molecules named alpha, beta, beta prime and gamma adaptins. Adaptins, together with medium and small subunits, form a heterotetrameric complex called an adaptor, whose role is to promote the formation of clathrin-coated pits and vesicles. The protein encoded by this gene is a gamma-adaptin protein and it belongs to the adaptor complexes large subunits family. **Function:** Subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or

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	endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. **Subunit:** Adaptor protein complex 1 (AP-1) is an heterotetramer composed of two large adaptins (gamma-type subunit AP1G1 and beta-type subunit AP1B1), a medium adaptin (mu-type subunit AP1M1 or AP1M2) and a small adaptin (sigma-type subunit AP1S1 or AP1S2 or AP1S3). Binds RABEP1 and SYNRG. Interacts (via GAE domain) with AP1AR (via coiled-coil domain). **Subcellular Location:** Golgi apparatus. Cytoplasmic vesicle, clathrin-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. **Tissue Specificity:** Widely expressed. **Similarity:** Belongs to the adaptor complexes large subunit family. Contains 1 GAE domain. **Database links:** **Entrez Gene:** 164 Human **Entrez Gene:** 11765 Mouse **Entrez Gene:** 171494 Rat Omim: 603533 Human **SwissProt:** O43747 Human **SwissProt:** P22892 Mouse **Unigene:** 461253 Human **Unigene:** 37210 Mouse **Unigene:** 430782 Mouse **Unigene:** 471663 Mouse **Unigene:** 9446 Rat γ-AdaptinA protein involved in clathrin-coated vesicle assembly, Molecular weight is100kDa, It interacts with the cytoplasmic domain of receptors during clathrin-coated vesicle assembly, acting as an adaptor。There are two types of adaptor proteins, AP1Participates in the assembly of clathrin-coated vesicles at the trans-Golgi network, AP2Participates in the assembly of clathrin coats formed from the plasma membrane。

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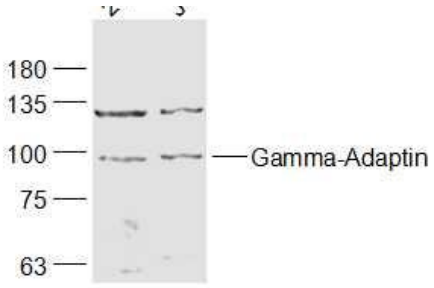
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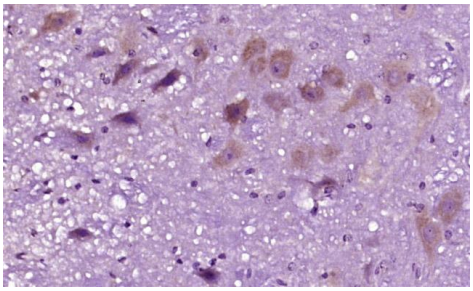
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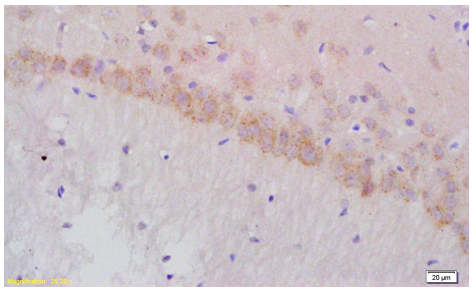
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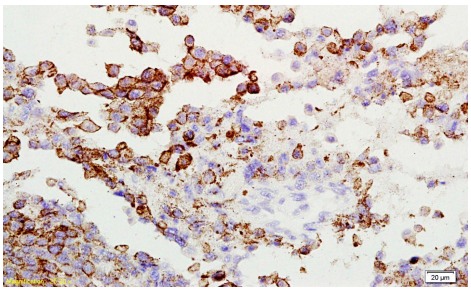
Sample:
293T(Human) Cell Lysate at 30 ug
Jurkat(Human) Cell Lysate at 30 ug
Primary: Anti-Gamma-Adaptin (SL1600R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 91 kD
Observed band size: 91 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Gamma-Adaptin) Polyclonal Antibody, Unconjugated (SL1600R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Gamma-Adaptin Polyclonal Antibody, Unconjugated(SL1600R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Gamma-Adaptin Polyclonal Antibody, Unconjugated(SL1600R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

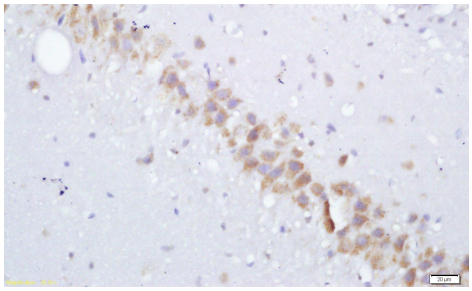
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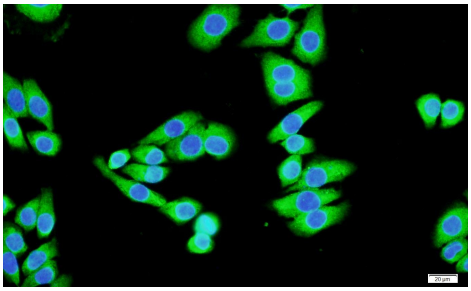
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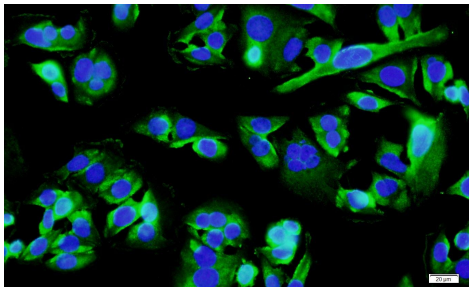
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Tissue/cell: Rat brian; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti- Gamma-Adaptin, Unconjugated(SL1600R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Cell culture(MCF7); Paraformaldehyde-fixed; Incubated by 0.3% Triton-100 for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Gamma-Adaptin) Polyclonal Antibody, Unconjugated (SL1600R) at 1:200 overnight at 4°C, followed by a conjugated secondary antibody (SL0295G-FITC) for 90 minutes and DAPI staining.



Cell culture(SW480); Paraformaldehyde-fixed; Incubated by 0.3% Triton-100 for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Gamma-Adaptin) Polyclonal Antibody, Unconjugated (SL1600R) at 1:200 overnight at 4°C, followed by a conjugated secondary antibody (SL0295G-FITC) for 90 minutes and DAPI staining.

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