10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Erbin Rabbit pAb

Catalog # AP97659

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96RT1
Other Accession	Q96RT1
Reactivity	Rat
Predicted	Pig, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	158298
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Erbin
Epitope Specificity	21-120/1412
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the LAP (LRR and PDZ) protein family. Contains 17 LRR (leucine-rich) repeats. Contains 1 PDZ (DHR) domain.
SUBUNIT	Interacts with ERBB2, BPAG1 and ITGB4. May favor the localization of ERBB2, by restricting its presence to the basolateral membrane of epithelial cells. Also found to interact with ARVCF and delta catenin. Interacts (via C-terminus) with DST Isoform 3 (via N-terminus).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of the leucine-rich repeat and PDZ domain (LAP) family. The encoded protein contains 17 leucine-rich repeats and one PDZ domain. It binds to the unphosphorylated form of the ERBB2 protein and regulates ERBB2 function and localization. It has also been shown to affect the Ras signaling pathway by disrupting Ras-Raf interaction. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

Additional Information

Gene ID	55914
Other Names	ERBB2IP; HEL-S-78; LAP2; 1700028E05Rik; mKIAA1225; ERBIN_HUMAN; ERBIN; Densin-180-like protein; Erbb2-interacting protein; Protein LAP2; KIAA1225; ERBIN_MOUSE; erbb2 interacting protein
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ERBIN {ECO:0000303|PubMed:10878805}
Function	Acts as an adapter for the receptor ERBB2, in epithelia. By binding the unphosphorylated 'Tyr-1248' of receptor ERBB2, it may contribute to stabilize this unphosphorylated state (PubMed:16203728). Inhibits NOD2-dependent NF-kappa-B signaling and pro-inflammatory cytokine secretion (PubMed:16203728). Acts as a mediator of keratinocyte differentiation by sequestering SHOC2 away from ERK- activating RAS complexes (PubMed:23524970).
Cellular Location	Cell junction, hemidesmosome. Nucleus membrane. Basolateral cell membrane. Cytoplasm Cell membrane. Note=Found in hemidesmosomes, which are cell-substrate adhesion complexes in stratified epithelia. In transfected cells, either diffusely distributed over the cytoplasm or concentrated at the basolateral membrane. Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes (By similarity)
Tissue Location	Highly expressed in brain, heart, kidney, muscle and stomach, followed by liver, spleen and intestine

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