

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Erbin in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse ErbB2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Erbin Lys496-Thr687 Accession # Q96RT1
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ErbB2IP (ErbB2 Interacting Protein/Erbin; also Densin-180-like protein and LAP2) is both a nuclear and cytoplasmic 175-180 kDa member of the LAP (LRR And PDZ) family of proteins. It is widely expressed, and found in cell types as diverse as intestinal columnar epithelium, neurons, keratinocytes and skeletal plus cardiac muscle cells. Functionally, ErbB2IP interacts with multiple proteins through a PZD-mediated interaction. Partners include ErbB2, δ -catenin, PSD-95 and ARVCF. The ErbB2 interaction localizes this receptor to the basolateral membrane of epithelium, while the δ -catenin interaction impacts dendritic arborization, possibly through involvement with type 1 or 2 catenin(s) and the F-actin cytoskeleton. Finally, ErbB2IP/Erbin is suggested to play a role in maintaining the G1 phase of the cell cycle. Human ErbB2IP is 1412 amino acids (aa) in length. It contains 17 LRRs (Leu-rich repeats) (aa 23-413) followed by one PDZ domain (aa 1321-1410). There are more than 10 utilized Tyr, and 15 utilized Ser/Thr phosphorylation sites. A series of deletions over aa 1211-1377 generate at least six known splice variants. All show a deletion of aa 1212-1252, and at least one additional 10-41 aa deletion C-terminal to the common deletion. Over aa 496-687, human and mouse ErbB2IP share 88% aa sequence identity.

PRODUCT SPECIFIC NOTICES

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