



Anti-ERBB4 (aa 1050-1150) polyclonal antibody (DPABH-02975)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Specifically binds and is activated by neuregulins, NRG-2, NRG-3, heparin-binding EGF-like growth factor, betacellulin and NTAK. Interaction with these factors induces cell differentiation. Not activated by EGF, TGF-A, and amphiregulin. The C-terminal fragment (CTF) of isoform JMA-A CYT-2 (containing E4ICD2) can stimulate transcription in the presence of YAP1. ERBB4 intracellular domain is involved in the regulation of cell growth. Conflicting reports are likely due at least in part to the opposing effects of the isoform-specific and nuclear-translocated ERBB4 intracellular domains (E4ICD1 and E4ICD2). Overexpression studies in epithelium show growth inhibition using E4ICD1 and increased proliferation using E4ICD2. E4ICD2 has greater in vitro kinase activity than E4ICD1. The kinase activity is required for the nuclear translocation of E4ICD2.
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1050 - 1150 of Human ErbB 4.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	IHC-P, WB
Format	Liquid
Size	100 µg

Buffer	pH: 7.40; Constituent: PBS
Preservative	0.02% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	ERBB4 v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 5 [Homo sapiens]
Official Symbol	ERBB4
Synonyms	ERBB4; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 4; HER4; ALS19; p180erbB4; receptor tyrosine-protein kinase erbB-4; proto-oncogene-like protein c-ErbB-4; tyrosine kinase-type cell surface receptor HER4; v-erb-a erythroblastic leukemia viral oncogene homolog 4; avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4;
Entrez Gene ID	2066
Protein Refseq	NP_001036064.1
UniProt ID	Q15303
Pathway	Adaptive Immune System; Calcium signaling pathway; DAP12 interactions; Disease
Function	ATP binding; epidermal growth factor receptor binding; protein binding; protein homodimerization activity