

Recombinant Human ERBB3 Protein, DDK/His-tagged

Cat. No. ERBB3-127H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ERBB3(Ser20 - Thr643), transcript variant 1, fused with DDK/His tag at C-terminal was expressed in HEK293.

Species Human

Source HEK293

ProteinLength Ser20 - Thr643

Description

This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized.

Form 1 x PBS, pH7.4, 10% glycerol.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|---|
| Molecular Mass | 71 kDa |
| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Storage | Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions. |
| Concentration | >50 ug/mL as determined by microplate BCA method |
| GENE INFORMATION | |
| Gene Name | ERBB3 v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) [Homo sapiens] |
| Official Symbol | ERBB3 |
| Synonyms | ERBB3; v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian); LCCS2, lethal congenital contracture syndrome 2; receptor tyrosine-protein kinase erbB-3; HER3; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3; MGC88033; |
| Gene ID | 2065 |
| mRNA Refseq | NM_001982 |
| Protein Refseq | NP_001973 |
| MIM | 190151 |
| UniProt ID | P21860 |

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