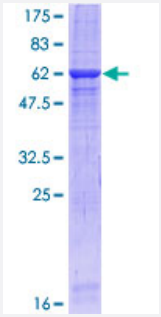
Full-Length

ERBB3 (Human) Recombinant Protein (P01)

Catalog # H00002065-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ERBB3 full-length ORF (AAH02706, 21 a.a. - 331 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	EVGNSQAVCPGTLNGLSVTGDAENQYQTLYKLYERCEVVMGNLEIVLTGHNADLSFLQWIREVTG YVLVAMNEFSTLPLPNLRVVRGTQVYDGKFAIFVMLNYNTNSSHALRQLRLTQLTEILSGGVYIEKN DKLCHMDTIDWRDIVRDRDAEIVVKDNGRSCPPCHEVCKGRCWGPGSEDCQTLTKTICAPQCN GHCFGPNPNQCCHDECAGGCSGPQDTDCFACRHFNDSGACVPRCPQPLVYNKLTFQLEPNPH TKYQYGGVCVASCPHNFVVDQTSCVRACPPDKMEVDKNGLKMCEPCGGLCPKAF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	59.95
Interspecies Antigen Sequence	Mouse (94); Rat (94)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ERBB3

Entrez GeneID	2065
GeneBank Accession#	BC002706
Protein Accession#	AAH02706
Gene Name	ERBB3
Gene Alias	ErbB-3, HER3, LCCS2, MDA-BF-1, MGC88033, c-erbB-3, c-erbB3, erbB3-S, p180-ErbB3, p45-sErbB3, p85-sErbB3
Gene Description	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
Omim ID	190151 607598
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor t yrosine 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 prote in 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 t o 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. Alternat e transcriptional splice variants encoding different isoforms have been characterized. One isofor m 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. [provided by RefSeq

Other Designations	erbB-3|lethal congenital contracture syndrome 2|v-erb-b2 avian erythroblastic leukemia viral onco gene homolog 3

Pathway

- Calcium signaling pathway
- Endocytosis
- ErbB signaling pathway

Disease

- Addison Disease
- Arthritis
- Autoimmune Diseases
- Bipolar Disorder
- Brain Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Coronary Artery Disease
- Crohn Disease
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Glioma
- Hypertension
- Multiple Sclerosis
- Ovarian Neoplasms

- Prostatic Neoplasms
- Schizophrenia
- Thyroid Diseases