

Product Information

MemDX™ Membrane Protein Human ERBB3 (Erb-b2 receptor tyrosine kinase 3) expressed in Sf9 for Antibody Discovery

Cat. No.: **MP0134Q**

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

This product is a 68.7 kDa Human ERBB3 membrane protein expressed in Sf9. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ERBB3

Protein Length

Partial

Protein Class

Adult stem cells, Druggable Genome, Protein Kinase, Secreted Protein, Stem cell - Pluripotency, Transmembrane

Molecular Weight

68.7 kDa

TMD

1

Sequence

MRANDALQVLGLLFSLARGSEVGNSQAVCPGTLNGLSVTGDAENQYQTLTKLYERCEVVMGNLEIVLTGHNADLSFLQWIREVTGY
ARIFKETELRKLKVLGSGVFGTVHKGWVPEGESIKIPVCIKVIEDKSGRQSFQAVTDHMLAIGSLDHAHIVRLLGLCPGSSLQLVTQY

Product Description

Expression Systems

Sf9

Tag

C-DDK

Form

Powder

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

ERBB3

Full Name

Erb-b2 receptor tyrosine kinase 3

Introduction

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.

Alternative Names

receptor tyrosine-protein kinase erbB-3; human epidermal growth factor receptor 3; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3

Gene ID

[2065](#)

UniProt ID

[P21860](#)