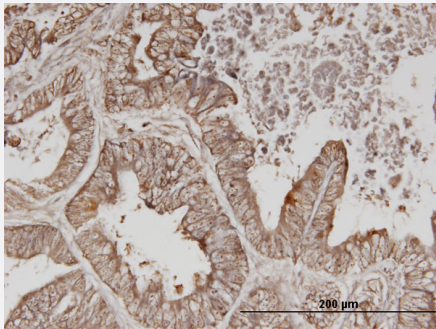


# ERBB3 monoclonal antibody (M02), clone 3F12

Catalog # H00002065-M02

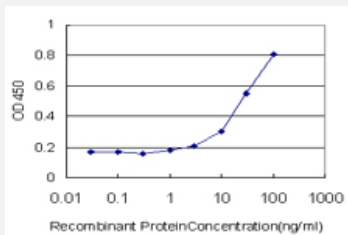
Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to ERBB3 on formalin-fixed paraffin-embedded human lung cancer. [antibody concentration 1.2 ug/ml]



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ERBB3 is approximately 3ng/ml as a capture antibody.

## Specification

### Product Description

Mouse monoclonal antibody raised against a full length recombinant ERBB3.

### Immunogen

ERBB3 (AAH02706, 21 a.a. ~ 331 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

### Sequence

EVGNSQAVCPGTLNGLSVTGDAENQYQTLTKLYERCEVVMGNLEMLTGHNADLSFLQWIREVTG  
YVLVAMNEFSTLPLPNLRVVRGTQVYDGKFAIFVMLNYNTNSSHALRQLRLTQLTEILSGGVYIEKN  
DKLCHMDTIDWRDIVRDRDAENVKDNGRSCPPCHEVCKGRCWGPSEDCQTLTKTICAPQCN  
GHCFGPNPNQCCCHDECAGGCSGPQDTCFACRHFNDSGACVPRCPQPLVYNKLTFLQLEPNPH  
TKYQYGGVCVASCPHNFVVDQTSCVRACPPDKMEVDKNGLKMCEPCGGLCPKAF

### Host

Mouse

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| Reactivity                    | Human                                                                    |
| Interspecies Antigen Sequence | Mouse (94); Rat (94)                                                     |
| Isotype                       | IgG2a Kappa                                                              |
| Quality Control Testing       | Antibody Reactive Against Recombinant Protein.                           |
| Storage Buffer                | In 1x PBS, pH 7.4                                                        |
| Storage Instruction           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to ERBB3 on formalin-fixed paraffin-embedded human lung cancer. [antibody concentration 1.2 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ERBB3 is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — ERBB3

|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">2065</a>                                                                                    |
| GeneBank Accession# | <a href="#">BC002706</a>                                                                                |
| Protein Accession#  | <a href="#">AAH02706</a>                                                                                |
| 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             | <a href="#">190151</a> <a href="#">607598</a>                                                           |

## Gene Ontology

[Hyperlink](#)

## Gene Summary

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. Alternative 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. [provided by RefSeq]

## Other Designations

erbB-3|lethal congenital contracture syndrome 2|v-erb-b2 avian erythroblastic leukemia viral oncogene 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](#)