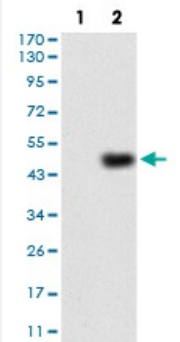
ERBB4 monoclonal antibody, clone 5G6B4

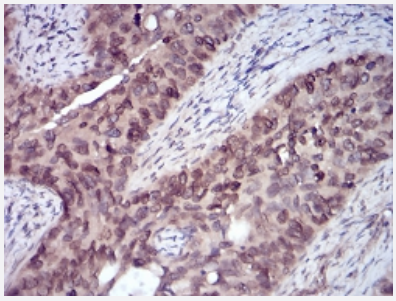
Catalog # MAB16669 Size 100 ug

Applications



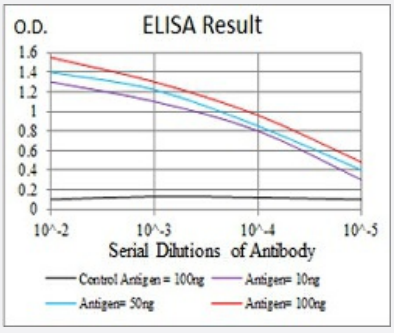
Western Blot (Transfected lysate)

Western blot analysis of Lane 1: HEK293 cell; Lane 2: ERBB4-hIgGFc transfected HEK293 cell with ERBB4 monoclonal antibody.



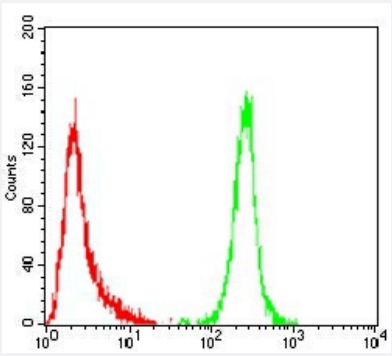
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded cervical cancer tissues with ERBB4 monoclonal antibody.



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of ERBB4 monoclonal antibody, clone 5G6B4.



Flow Cytometry

Flow cytometric analysis of Hela cells with ERBB4 monoclonal antibody (green) and negative control (red).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human ERBB4.
Immunogen	Recombinant protein corresponding to amino acid 1159-1308 of human ERBB4 from *E. coli*.
Host	Mouse
Theoretical MW (kDa)	146.8
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunocytochemistry Flow Cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

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Gene Info — ERBB4

Entrez GeneID	2066
Gene Name	ERBB4
Gene Alias	HER4, MGC138404, p180erbB4
Gene Description	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)
Omim ID	600543
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the Tyr protein kinase family and the epidermal growth factor receptor s ubfamily. It encodes a single-pass type I membrane protein with multiple cysteine rich domains, a transmembrane domain, a tyrosine kinase domain, a phosphotidylinositol-3 kinase binding site a nd a PDZ domain binding motif. The protein binds to and is activated by neuregulins and other fac tors and induces a variety of cellular responses including mitogenesis and differentiation. Multiple proteolytic events allow for the release of a cytoplasmic fragment and an extracellular fragment. M utations in this gene have been associated with cancer. Alternatively spliced variants which encod e different protein isoforms have been described; however, not all variants have been fully charact erized. [provided by RefSeq
Other Designations	avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4|receptor tyrosine-protein kinas e erbB-4|tyrosine kinase-type cell surface receptor HER4|v-erb-a avian erythroblastic leukemia vir al oncogene homolog-like 4|v-erb-a erythroblastic leukemia v

Pathway

- Calcium signaling pathway

- Endocytosis
- ErbB signaling pathway

Disease

- Adenocarcinoma
- Attention
- Autistic Disorder
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Cardiovascular Diseases
- Celiac Disease
- Cell Transformation
- Colorectal Neoplasms
- Diabetes Mellitus
- Disease Susceptibility
- Edema
- Genetic Predisposition to Disease
- Glioma
- Lung Neoplasms
- Melanoma
- Memory
- Mental Retardation
- Prostate cancer
- Prostatic Neoplasms
- Psychotic Disorders

- Reaction Time
- Schizophrenia
- Skin Neoplasms
- Tobacco Use Disorder