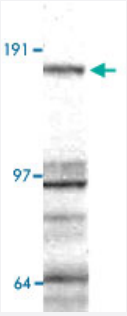
ERBB4 monoclonal antibody, clone HFR1

Catalog # MAB7170 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot of ERBB4 detected in human brain lysates using ERBB4 monoclonal antibody, clone HFR1 (Cat # MAB7170) at 2.0 ug/mL .

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of ERBB4.
Immunogen	A synthetic peptide corresponding to amino acids 1250-1264 of human ERBB4.
Sequence	RSTLQHPDYLQEYST
Host	Mouse
Reactivity	Human, Mouse
Specificity	HER4 (HFR1). Predicted to react with Rat (100% identity with immunogen) and Chicken (100% ident ity with immunogen) due to sequence homology.T his antibody is useful for Western blot analysis (pre dicted molecular weight 147 KDa). There may be some non-specific staining below 50 KDa.
Form	Liquid
Isotype	IgG2b
Recommend Usage	Western Blot (3 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (1 mg/mL BSA)

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Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

  Western blot of ERBB4 detected in human brain lysates using ERBB4 monoclonal antibody, clone HFR1 (Cat # MAB7170) at 2.0 ug/mL .

- Immunohistochemistry

- Immunoprecipitation

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

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- 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

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

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