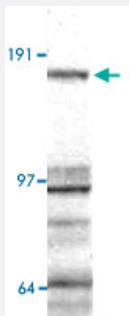


ERBB4 monoclonal antibody, clone HFR1

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% identity with immunogen) due to sequence homology. This antibody is useful for Western blot analysis (predicted 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)

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
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Gene Name	ERBB4
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Gene Alias	HER4, MGC138404, p180erbB4
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Gene Description	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)
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Omim ID	600543
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Gene Ontology	Hyperlink
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Gene Summary	This gene is a member of the Tyr protein kinase family and the epidermal growth factor receptor subfamily. It encodes a single-pass type I membrane protein with multiple cysteine rich domains, a transmembrane domain, a tyrosine kinase domain, a phosphatidylinositol-3 kinase binding site and a PDZ domain binding motif. The protein binds to and is activated by neuregulins and other factors 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. Mutations in this gene have been associated with cancer. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq]
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Other Designations	avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4 receptor tyrosine-protein kinase erbB-4 tyrosine kinase-type cell surface receptor HER4 v-erb-a avian erythroblastic leukemia viral oncogene homolog-like 4 v-erb-a erythroblastic leukemia v
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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](#)