Anti-ErbB2 [ICR52]

Catalogue number: 153390
Sub-type: Primary antibody
Images:

Contributor

Inventor: Chris Dean
Institute: The Institute of Cancer Research
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-ErbB2 [ICR52]

Alternate name: ERBB2; Tyrosine kinase type cell surface receptor HER2

Class: Monoclonal
Conjugate: Unconjugated
Description: Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype: IgG2b
Reactivity: Human
Selectivity:
Host: Rat
Immunogen: Paper not available
Immunogen UNIPROT ID:
Sequence:
Growth properties:

Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Erb-B2

Target alternate names:

Target background: Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization.

Molecular weight: 77 kDa

Ic50:

Applications

Application: IHC
Application notes:

Handling

Format: Liquid
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Smellie et al. 1995. Cancer Res. 55(23 Suppl):5842s-5846s. PMID: 7493357. ; Radioimmunotherapy of breast cancer xenografts with monoclonal antibody ICR12 against c-erbB2 p185: comparison of iodogen and N-succinimidyl 4-methyl-3-(tri-n-butylstannyl)benzoate radioiodination methods. ; Eccles et al. 1994. Cancer Res. 54(19):5171-7. PMID: 7923136. ; Regression of established breast carcinoma xenografts with antibody-directed enzyme prodrug therapy against c-erbB2 p185.