

## ERBB2 RABBIT PAB

**Cat.#:** S221580

**Product Name:** Anti-ERBB2 Rabbit Polyclonal Antibody

**Synonyms:** NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu

**UNIPROT ID:** P04626 (Gene Accession - NP\_004439 )

**Background:** The ErbB2 (HER2) proto-oncogene encodes a 185 kDa transmembrane, receptor-like glycoprotein with intrinsic tyrosine kinase activity. While ErbB2 lacks an identified ligand, ErbB2 kinase activity can be activated in the absence of a ligand when overexpressed and through heteromeric associations with other ErbB family members. Amplification of the ErbB2 gene and overexpression of its product are detected in almost 40% of human breast cancers. Binding of the c-Cbl ubiquitin ligase to ErbB2 at Tyr1112 leads to ErbB2 poly-ubiquitination and enhances degradation of this kinase. ErbB2 is a key therapeutic target in the treatment of breast cancer and other carcinomas and targeting the regulation of ErbB2 degradation by the c-Cbl-regulated proteolytic pathway is one potential therapeutic strategy. Phosphorylation of the kinase domain residue Tyr877 of ErbB2 (homologous to Tyr416 of pp60c-Src) may be involved in regulating ErbB2 biological activity. The major autophosphorylation sites in ErbB2 are Tyr1248 and Tyr1221/1222; phosphorylation of these sites couples ErbB2 to the Ras-Raf-MAP kinase signal transduction pathway.

**Immunogen:** Synthetic peptide of human ERBB2

**Applications:** ELISA, WB, IHC

**Recommended Dilutions:** IHC: 20-100;WB: 200-1000;ELISA: 5000-10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

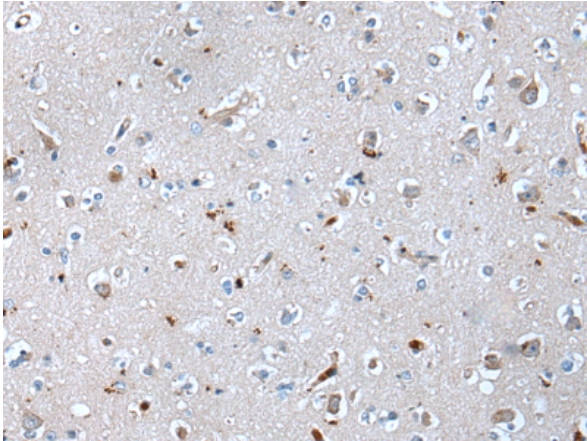
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse, Rat

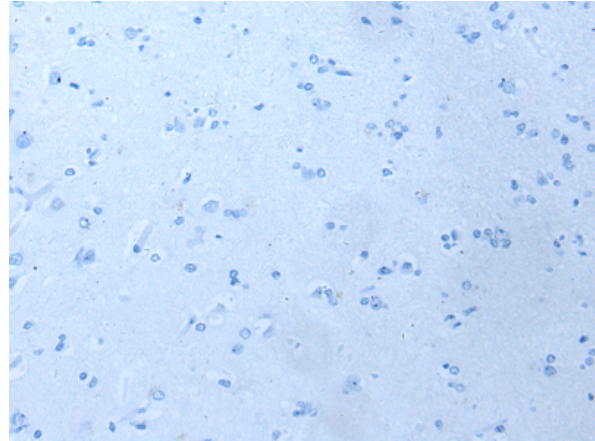
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Signal Transduction, Cancer

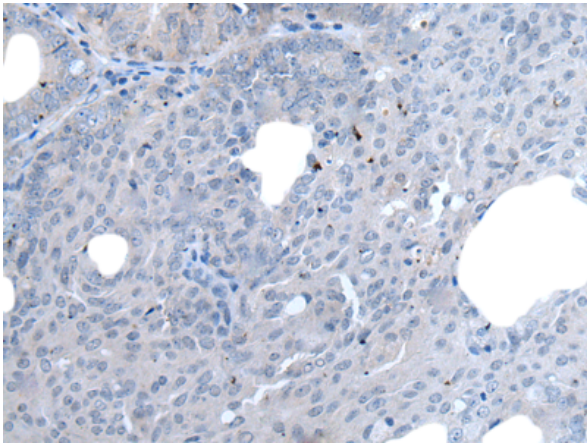
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



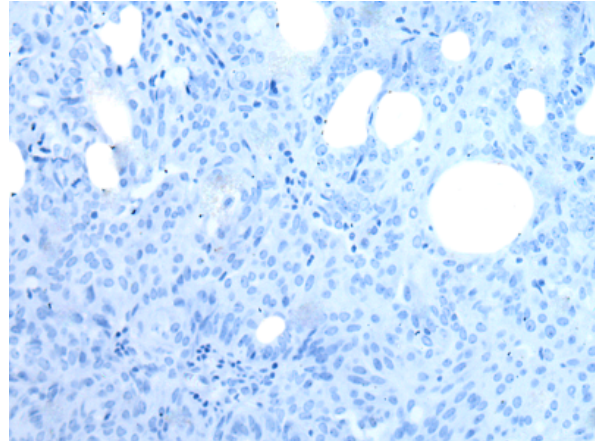
Immunohistochemistry analysis of paraffin embedded Human brain tissue using 221580(ERBB2 Antibody) at a dilution of 1/35(Cytoplasm and Cell membrane).



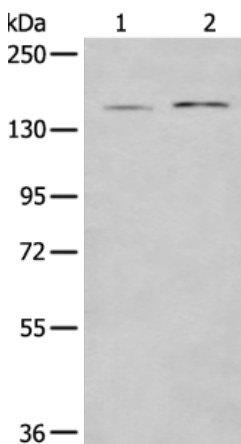
In comparison with the IHC on the left, the same paraffin-embedded Human brain tissue is first treated with the synthetic peptide and then with 221580(Anti-ERBB2 Antibody) at dilution 1/35.



The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using 221580(Anti-ERBB2 Antibody) at a dilution of 1/35.



In comparison with the IHC on the left, the same paraffin-embedded Human ovarian cancer tissue is first treated with synthetic peptide and then with D263227(Anti-ERBB2 Antibody) at dilution 1/35.



Gel: 6%SDS-PAGE, Lysate: 40 µg;  
Lane 1-2: 231 and Hela cell lysates;  
Primary antibody: 221580(ERBB2 Antibody) at dilution 1/350;  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution;  
Exposure time: 3 minutes



# Product Description

Pioneering GTPase and Oncogene Product Development since 2010

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