

Product datasheet for **AP02479PU-N**

EGFR pTyr1172 Rabbit Polyclonal Antibody

Product data:

| | |
|-----------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IHC, WB |
| Recommended Dilution: | Western blot: 1/500-1/1000. Incubate membrane with diluted antibody in 5% nonfat milk, 1xTBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight. Immunohistochemistry on Paraffin Sections: 1/50-1/100. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Peptide sequence around phosphorylation site of Tyrosine 1172 (P-D-Yp-Q-Q) derived from HUMAN EGFR. |
| Specificity: | This antibody detects endogenous levels EGFR only when phosphorylated at Tyrosine 1172. |
| Formulation: | PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl State: Aff - Purified State: Liquid purified IgG fraction Stabilizer: 50% Glycerol Preservative: 0.02% Sodium Azide |
| Concentration: | lot specific |
| Purification: | Immunoaffinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Gene Name: | epidermal growth factor receptor |
| Database Link: | Entrez Gene 1956 Human P00533 |



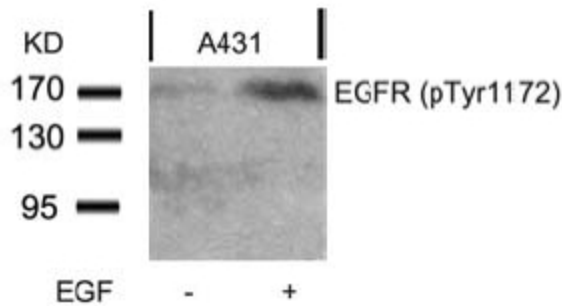
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Background:

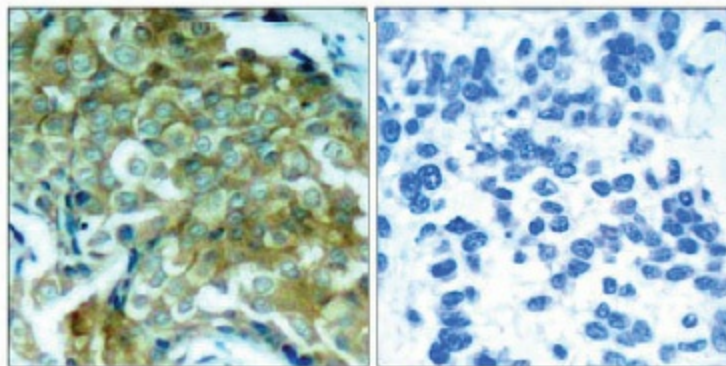
Protein kinases are enzymes that transfer a phosphate group from a phosphate donor onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. The protein kinase family is one of the largest families of proteins in eukaryotes, classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. Epidermal Growth factor receptor (EGFR) is the prototype member of the type 1 receptor tyrosine kinases. EGFR overexpression in tumors indicates poor prognosis and is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.

Synonyms:

Epidermal growth factor receptor, EGF Receptor, erbB-1, c-ErbB-1

Product images:


Western blot analysis of extracts from A431 cells untreated or treated with EGF using EGFR pTyr1172 antibody.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using EGFR antibody.