

## Product datasheet for **AP02378PU-N**

### EGFR pSer1070 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Suitable for use in Western blot (1:500~1:1000) and Immunohistochemistry (1:50~1:100).
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human EGFR around the phosphorylation site of serine 1070 (R-Y-SP-S-D).
Specificity:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. EGFR (phospho-Ser1070) antibody detects endogenous levels of EGFR only when phosphorylated at serine1070.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Database Link:	<a href="#">Entrez Gene 1956 Human P00533</a>



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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

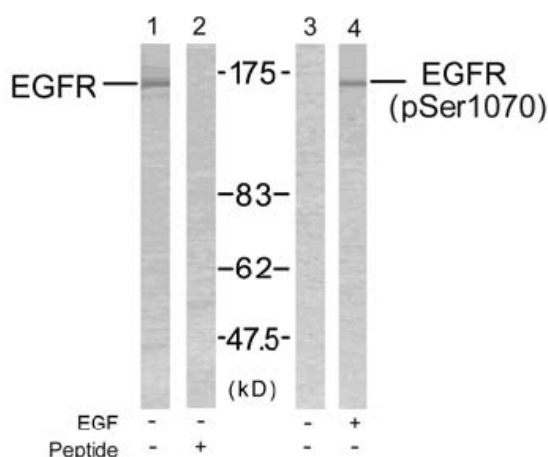
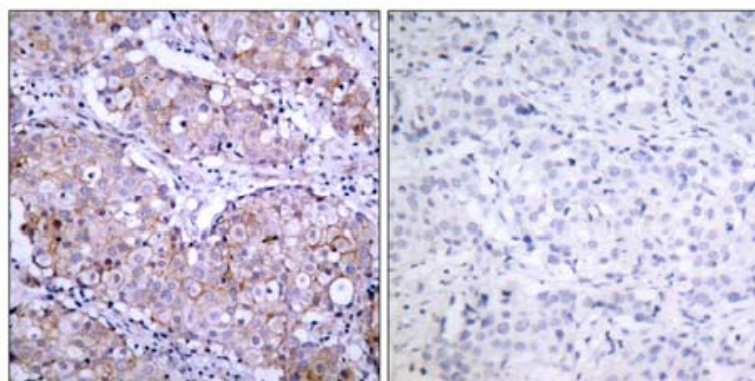
**Product images:**


Figure 2. Western blot analysis of extract from SK-OV3 cells untreated or treated with EGF using EGFR antibody (Lane 1 and 2) and EGFR (phospho- Ser1070) antibody (Lane 3 and 4).



P-Peptide                      -                      +

Figure 1. Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue, using EGFR (phospho-Ser1070) antibody.