10320 Camino Santa Fe, Suite G
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# EGFR (pS1026) Antibody
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP53344**

## Specification

### EGFR (pS1026) Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P00533 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **175 KDa** |
| Antigen Region | **991-1040** |

### EGFR (pS1026) Antibody - Additional Information

**Gene ID** 1956

**Dilution**
WB~~1:1000

**Format**
Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol

**Storage**
Store at -20 °C.Stable for 12 months from date of receipt

### EGFR (pS1026) Antibody - Protein Information

**Name** EGFR (HGNC:3236)

**Synonyms** ERBB, ERBB1, HER1

**Function**
Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses (PubMed:<a href="http://www.uniprot.org/citations/2790960" target="_blank">2790960</a>, PubMed:<a href="http://www.uniprot.org/citations/10805725" target="_blank">10805725</a>, PubMed:<a href="http://www.uniprot.org/citations/27153536" target="_blank">27153536</a>). Known ligands include EGF, TGFA/TGF-alpha, AREG, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin- binding EGF (PubMed:<a href="http://www.uniprot.org/citations/2790960" target="_blank">2790960</a>, PubMed:<a href="http://www.uniprot.org/citations/7679104" target="_blank">7679104</a>, PubMed:<a href="http://www.uniprot.org/citations/8144591" target="_blank">8144591</a>, PubMed:<a href="http://www.uniprot.org/citations/9419975" target="_blank">9419975</a>, PubMed:<a href="http://www.uniprot.org/citations/15611079" target="_blank">15611079</a>, PubMed:<a href="http://www.uniprot.org/citations/12297049" target="_blank">12297049</a>, PubMed:<a href="http://www.uniprot.org/citations/27153536"

target="_blank">27153536</a>, PubMed:<a href="http://www.uniprot.org/citations/20837704" target="_blank">20837704</a>, PubMed:<a href="http://www.uniprot.org/citations/17909029" target="_blank">17909029</a>). Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules (PubMed:<a href="http://www.uniprot.org/citations/27153536" target="_blank">27153536</a>). May also activate the NF-kappa-B signaling cascade (PubMed:<a href="http://www.uniprot.org/citations/11116146" target="_blank">11116146</a>). Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling (PubMed:<a href="http://www.uniprot.org/citations/11602604" target="_blank">11602604</a>). Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin (PubMed:<a href="http://www.uniprot.org/citations/11483589" target="_blank">11483589</a>). Positively regulates cell migration via interaction with CCDC88A/GIV which retains EGFR at the cell membrane following ligand stimulation, promoting EGFR signaling which triggers cell migration (PubMed:<a href="http://www.uniprot.org/citations/20462955" target="_blank">20462955</a>). Plays a role in enhancing learning and memory performance (By similarity). Plays a role in mammalian pain signaling (long-lasting hypersensitivity) (By similarity).

**Cellular Location**
Cell membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus membrane; Single-pass type I membrane protein. Nucleus membrane; Single-pass type I membrane protein Endosome Endosome membrane. Nucleus. Note=In response to EGF, translocated from the cell membrane to the nucleus via Golgi and ER (PubMed:20674546, PubMed:17909029). Endocytosed upon activation by ligand (PubMed:2790960, PubMed:17182860, PubMed:27153536, PubMed:17909029). Colocalized with GPER1 in the nucleus of estrogen agonist-induced cancer-associated fibroblasts (CAF) (PubMed:20551055)

**Tissue Location**
Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.

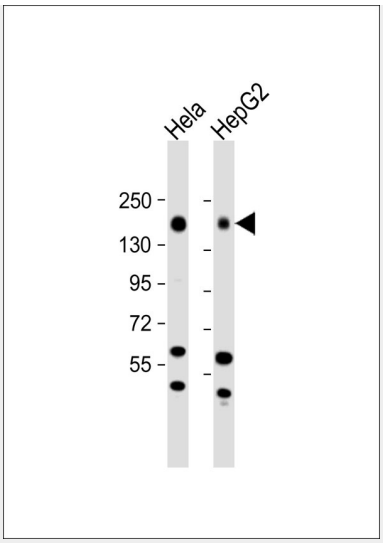
## EGFR (pS1026) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## EGFR (pS1026) Antibody - Images

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All lanes : Anti-EGFR (pS1026) Antibody at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution. Predicted band size : 134 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## EGFR (pS1026) Antibody - Background

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## EGFR (pS1026) Antibody - References

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