

**EGFR**  
**Rabbit Monoclonal antibody(Mab)**  
**Catalog # AD80192****Specification**

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**EGFR - Product info**

Application	IHC-P, IHC
Primary Accession	<a href="#">P00533</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	134277

**EGFR - Additional info**

Gene ID	1956
Gene Name	EGFR

**Other Names**

Epidermal growth factor receptor, 2.7.10.1, Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1, EGFR (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=3236" target="\_blank">HGNC:3236</a>), ERBB, ERBB1, HER1

**Dilution**

IHC-P~~Ready-to-use  
IHC~~Ready-to-use

Storage	This product is stored at 2-127 °C, please use it within the expiration date.
Precautions	EGFR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**EGFR - 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="#">2790960</a> , PubMed: <a href="#">10805725</a> , PubMed: <a href="#">27153536</a> ). Known ligands include EGF, TGFA/TGF-alpha, AREG, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF (PubMed: <a href="#">2790960</a> , PubMed: <a href="#">7679104</a> , PubMed: <a href="#">8144591</a> , PubMed: <a href="#">9419975</a> ,

	<p>PubMed:<a href="#">15611079</a>, PubMed:<a href="#">12297049</a>, PubMed:<a href="#">27153536</a>, PubMed:<a href="#">20837704</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="#">27153536</a>). May also activate the NF-kappa-B signaling cascade (PubMed:<a href="#">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="#">11602604</a>). Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin (PubMed:<a href="#">11483589</a>). Plays a role in enhancing learning and memory performance (By similarity).</p>
Cellular Location	<p>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). Endocytosed upon activation by ligand (PubMed:2790960, PubMed:17182860, PubMed:27153536). Colocalized with GPER1 in the nucleus of estrogen agonist-induced cancer-associated fibroblasts (CAF) (PubMed:20551055)</p>
Tissue Location	<p>Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.</p>

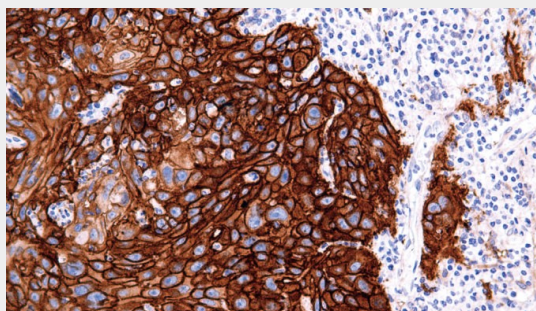
## EGFR - Protocols

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

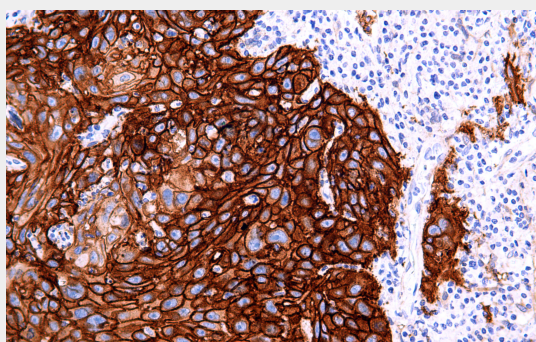
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

## EGFR - Images



Lung squamous cell carcinoma



Immunohistochemical analysis of paraffin-embedded human lung squamous carcinoma tissue using AD80192 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9.0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room temperature. AmpSee™ Detection Systems [Abcepta:AR005] was used as the secondary antibody.