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## anti-EGFR antibody (pSer1071)



**Images** 



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Target:

Quantity:	100 μL
Target:	EGFR
Binding Specificity:	pSer1071
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EGFR antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF),
	Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human EGFR around the phosphorylation site of Ser1071.
Isotype:	IgG
Specificity:	Phospho-EGFR (Ser1071) Antibody detects endogenous levels of EGFR only when
	phosphorylated at Serine 1071.
Predicted Reactivity:	Pig,Bovine,Sheep,Rabbit,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential
	chromatography on phospho- and non-phospho-peptide affinity columns.
Target Details	

**EGFR** 

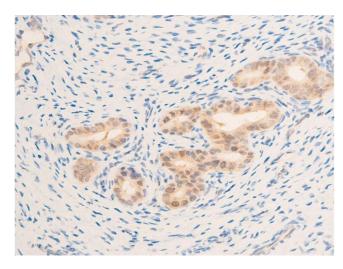
### Target Details

Alternative Name:	EGFR (EGFR Products)	
Background:	Description: Receptor tyrosine kinase binding ligands of the EGF family and activating several	
	signaling cascades to convert extracellular cues into appropriate cellular responses	
	(PubMed:2790960, PubMed:10805725, PubMed:27153536). Known ligands include EGF,	
	TGFA/TGF-alpha, AREG, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-	
	binding EGF (PubMed:2790960, PubMed:7679104, PubMed:8144591, PubMed:9419975,	
	PubMed:15611079, PubMed:12297049, PubMed:27153536, PubMed:20837704). 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:27153536). May also activate the NF-kappa-B signaling cascade	
	(PubMed:11116146). 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:11602604). Also phosphorylates MUC1 and increases its	
	interaction with SRC and CTNNB1/beta-catenin (PubMed:11483589). Plays a role in enhancing	
	learning and memory performance (By similarity).	
	Gene: EGFR	
Molecular Weight:	150-160kDa	
Gene ID:	1956	
UniProt:	P00533	
Pathways:	NF-kappaB Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling	
	Pathway, Neurotrophin Signaling Pathway, Stem Cell Maintenance, Hepatitis C, Positive	
	Regulation of Response to DNA Damage Stimulus, Interaction of EGFR with phospholipase C-	
	gamma, Thromboxane A2 Receptor Signaling, EGFR Downregulation, S100 Proteins	
Application Details		
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
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#### Handling

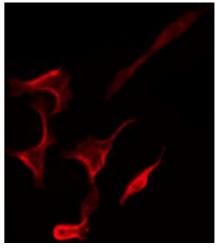
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

#### **Images**



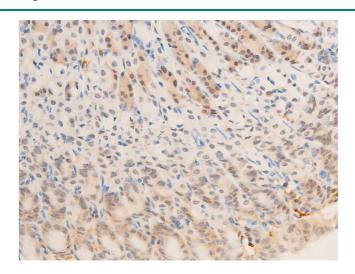
#### **Immunohistochemistry**

**Image 1.** ABIN6267269 at 1/100 staining rat uterine tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### Immunofluorescence (fixed cells)

**Image 2.** ABIN6267269 staining SK-OV3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



#### **Immunohistochemistry**

**Image 3.** ABIN6267269 at 1/100 staining mouse gastric tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the product details page for more images. Overall 8 images are available for ABIN6256098.