Product Datasheet

EGFR(Phospho-Y1068) Rabbit mAb

Catalog No: #13404

Package Size: #13404-1 50ul #13404-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

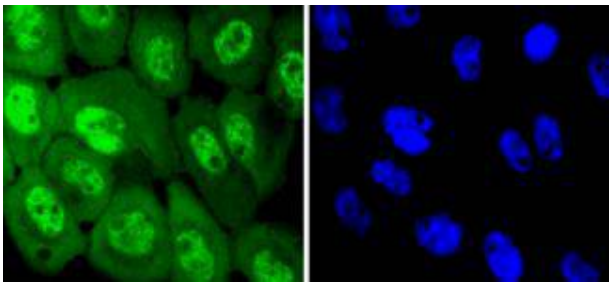
Product Name	EGFR(Phospho-Y1068) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SD2055
Purification	ProA affinity purified
Applications	WB;ICC/IF;FC
Species Reactivity	Human
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Tyr1068 of human EGFR.
Conjugates	Unconjugated
Other Names	Avian erythroblastic leukemia viral (v erb b) oncogene homolog antibody Cell growth inhibiting protein 40 antibody Cell proliferation inducing protein 61 antibody EGF R antibody EGFR antibody EGFR_HUMAN antibody Epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog) antibody Epidermal growth factor receptor (erythroblastic leukemia viral (v erb b) oncogene homolog avian) antibody Epidermal growth factor receptor antibody erb-b2 receptor tyrosine kinase 1 antibody ERBB antibody ERBB1 antibody Errp antibody HER1 antibody mENA antibody NISBD2 antibody Oncogen ERBB antibody PIG61 antibody Proto-oncogene c-ErbB-1 antibody Receptor tyrosine protein kinase ErbB 1 antibody Receptor tyrosine-protein kinase ErbB-1 antibody SA7 antibody Species antigen 7 antibody Urogastrone antibody v-erb-b Avian erythroblastic leukemia viral oncogen homolog antibody wa2 antibody Wa5 antibody
Accession No.	Swiss-Prot#:P00533
Calculated MW	134 kDa
SDS-PAGE MW	170 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

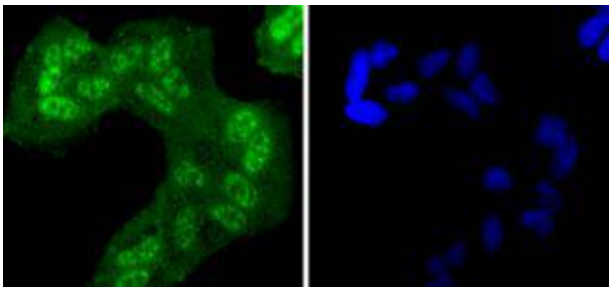
WB: 1:500-1:2000

ICC/IF: 1:50-1:200

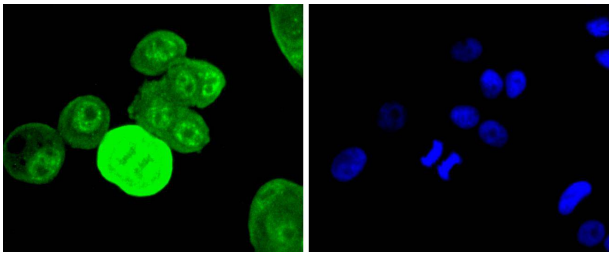
Images



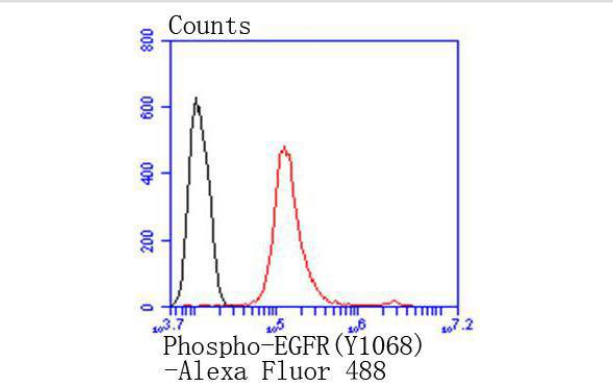
ICC staining Phospho-EGFR(Y1068) in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-EGFR(Y1068) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-EGFR(Y1068) in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Phospho-EGFR(Y1068) antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

Epidermal growth factor mediates its effects on cell growth through its inter-action with a cell surface glycoprotein designated the EGF receptor. Binding of EGF or TGF alpha to the EGF receptor activates tyrosine-specific protein kinase activity intrinsic to the EGF receptor. The carboxy terminal tyrosine residues on EGFR, Tyr 1068 and Tyr 1173, are the major sites of autophosphorylation, which occurs as a result of EGF binding. Once activated, EGFR mediates the binding of the phosphotyrosine binding (PTB) domain of GRB2 through direct interactions with Tyr 1068 and Tyr 1086 and through indirect interactions with Tyr 1173 in the Ras signaling pathway. Tyr 1173 of EGFR also functions as a kinase substrate. Phosphorylation of Tyr 992, Tyr 1068 and Tyr 1086 is required for conformational change in the C-terminal tail of the EGF receptor.

References

1. Zhang W et al. A Selected Lactobacillus rhamnosus Strain Promotes EGFR-Independent Akt Activation in an Enterotoxigenic Escherichia coli K88-Infected IPEC-J2 Cell Model. PLoS One 10:e0125717 (2015).
2. Pan T et al. Cytohesins/ARNO: the function in colorectal cancer cells. PLoS One 9:e90997 (2014).

Published Papers

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el at., CD146 is a coreceptor for VEGFR-2 in tumor angiogenesis. In Blood on 2012 Sep 13 by Tianxia Jiang, Jie Zhuang, et al..PMID: 22718841, , (2012)

PMID:22718841

Note: This product is for in vitro research use only and is not intended for use in humans or animals.