EGFR-Specific Polyclonal ANTIBODY
Catalog Number: 18986-1-AP

Basic Information
Catalog Number: 18986-1-AP
Size: 75 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number:
GenBank Accession Number: NM_005228
GeneID (NCBI): 1956
Full Name: epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)
Calculated MW: 134 kDa
Observed MW: 145-165 kDa

Recommended Dilutions:
WB: 1:2000-1:4000
IP: 0.5-4.0 μg for IP and 1:1000-1:1000 for WB
IHC: 1:400-1:800
IF: 1:50-1:100

Applications
Tested Applications:
FC, IF, IHC, IP, WB, ELISA
Cited Applications:
IF, WB
Species Specificity:
human, rat
Cited Species:
human, mouse, rat

Background Information
ERBB1, also named as EGFR, is a receptor for EGF, but also for other members of the EGF family, such as TGF-alpha, amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor. ERBB1 is involved in the control of cell growth and differentiation. Phosphorylates MUC1 in breast cancer cells and increases the interaction of MUC1 with C-SRC and CTNNB1/beta-catenin. Isoform 2/truncated isoform of ERBB1 may act as an antagonist. EGFR is associated with lung cancer. The antibody is specific to isoform 1.

Notable Publications
Author | Pubmed ID | Journal | Application
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Zhirui Zhang | 27658596 | J Exp Clin Cancer Res | WB
Qin Zheng | 26073679 | Cell Death Dis | WB
Yao-Dong Chen | 26039883 | Mol Med Rep | WB

Storage
Store at -20ºC. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3
Aliquoting is unnecessary for -20ºC storage

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1 (312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
L02 cells were subjected to SDS-PAGE followed by western blot with 18986-1-AP (EGFR-specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

WB result of anti-EGFR (18986-1-AP) in different cell lysates.

WB result of anti-EGFR (18986-1-AP) in HeLa and REPI cell by Dr. Kodani, Andrew.

Immunofluorescent analysis of (-20°C Ethanol) fixed A431 cells using 18986-1-AP (EGFR-Specific antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.

IP Result of anti-EGFR-Specific (IP: 18986-1-AP, 3ug; Detection: 18986-1-AP 1:500) with MCF-7 cells lysate 2500ug.

Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 18986-1-AP (EGFR-Specific antibody) at dilution of 1:800 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer pH 9.

Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 18986-1-AP (EGFR-Specific antibody) at dilution of 1:800 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer pH 9.