For Research Use Only

EGFR Monoclonal antibody

Catalog Number:66455-1-Ig Featured Product 85 Publications

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Basic Information

Catalog Number:
66455-1-Ig

Concentration:
1000 ug/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG24947

GenBank Accession Number:
BC094761

GeneID (NCBI):
1956

UNIPROT ID:
P00533

Full Name:
epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)

Calculated MW:
1210 aa, 134 kDa

Observed MW:
145-165 kDa

Purification Method:
Protein G purification

CloneNo.:
2A2H10

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:2000-1:8000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, EC109 cells, A549 cells, HeLa cells, HepG2 cells, LNCaP cells, PC-3 cells, SKOV-3 cells, MDA-MB-468 cells, MDA-MB-231 cells, PC-3 clles

IHC : human tonsillitis tissue, human breast cancer tissue, human cervical cancer tissue, human colon cancer tissue, human gliomas tissue, human lung cancer tissue, human placenta tissue, human skin cancer tissue

Background Information

EGFR, also named as ERBB1, is a cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. The gene resides on chromosome 7p12, encoding a 170 kDa membrane-associated glycoprotein. Recent studies have shown EGFR plays a critical role in cancer development and progression, including cell proliferation, apoptosis, angiogenesis, and metastatic spread. Mutations in this gene are associated with lung cancer.

Notable Publications

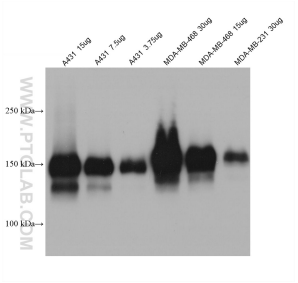
Author	Pubmed ID	Journal	Application
Dali Zhao	34555268	FEBS Open Bio	WB
Huilan Li	33076176	Talanta	WB,IF
Jiarui Cui	36187764	Front Physiol	IHC

Storage

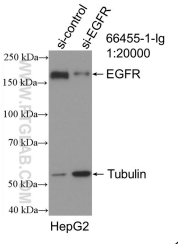
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

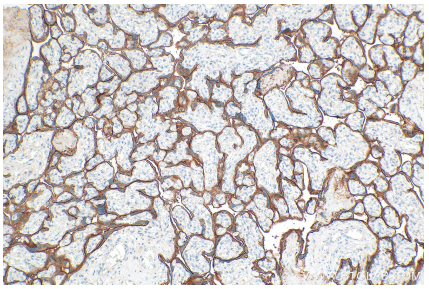
Selected Validation Data



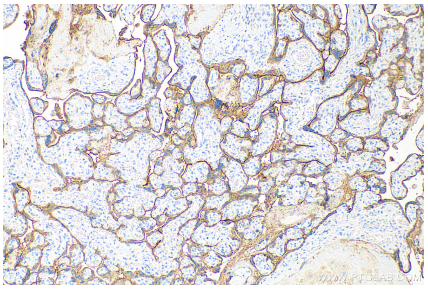
Various lysates were subjected to SDS PAGE followed by western blot with 66455-1-Ig (EGFR antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



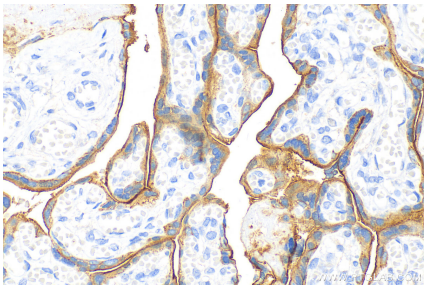
WB result of EGFR antibody (66455-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EGFR transfected HepG2 cells.



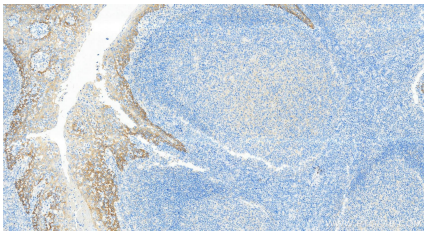
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66455-1-Ig (EGFR antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



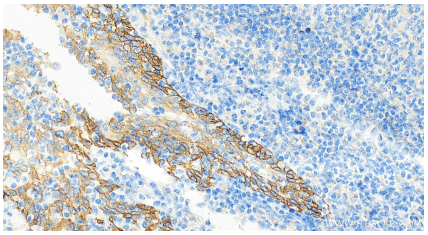
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66455-1-Ig (EGFR antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66455-1-Ig (EGFR antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66455-1-Ig (EGFR antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66455-1-Ig (EGFR antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).