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Product datasheet for UM500070

EGFR Mouse Monoclonal Antibody [Clone ID: UMAB95]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB95
Applications:	10k-ChIP, IF, IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:100
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human EGFR(NP_958440) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	42.4 kDa
Gene Name:	epidermal growth factor receptor
Database Link:	NP_958440 Entrez Gene 13649 MouseEntrez Gene 24329 RatEntrez Gene 613027 MonkeyEntrez Gene 1956 Human P00533

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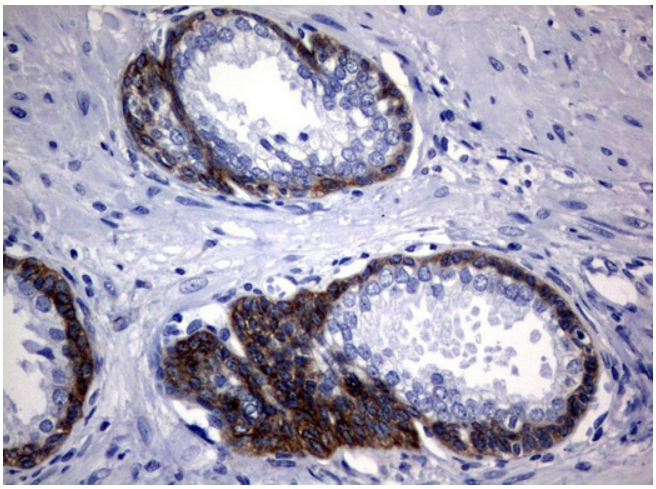
Background: The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. Multiple alternatively spliced transcript variants that encode different protein isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

Synonyms: ERBB; ERBB1; ERRP; HER1; mENA; NISBD2; PIG61

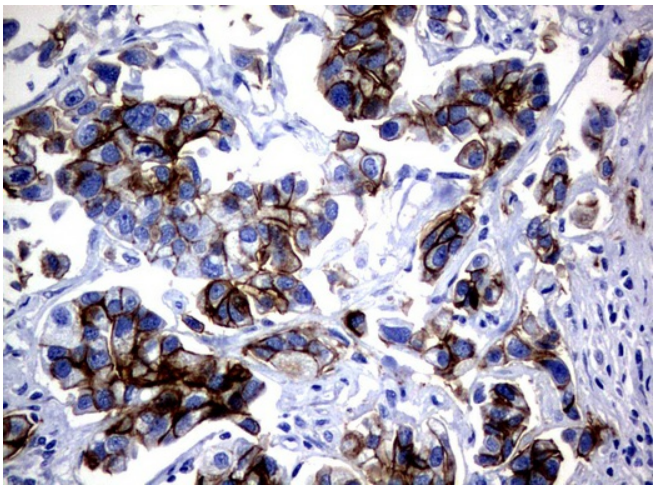
Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Secreted Protein, Stem cell relevant signaling - JAK/STAT signaling pathway, Transmembrane

Protein Pathways: Adherens junction, Bladder cancer, Calcium signaling pathway, Colorectal cancer, Cytokine-cytokine receptor interaction, Dorso-ventral axis formation, Endocytosis, Endometrial cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, MAPK signaling pathway, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

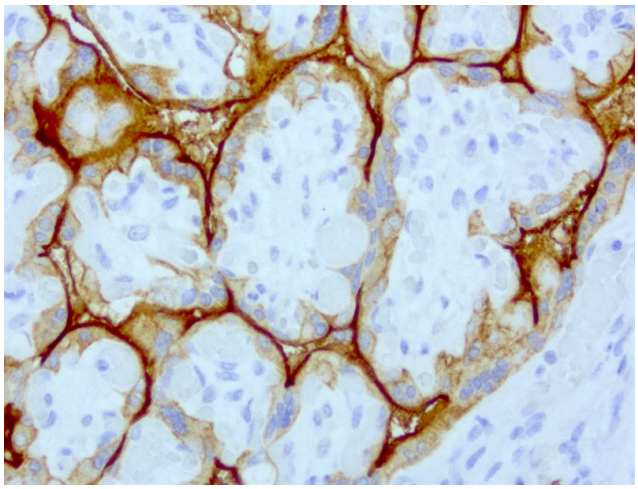
Product images:



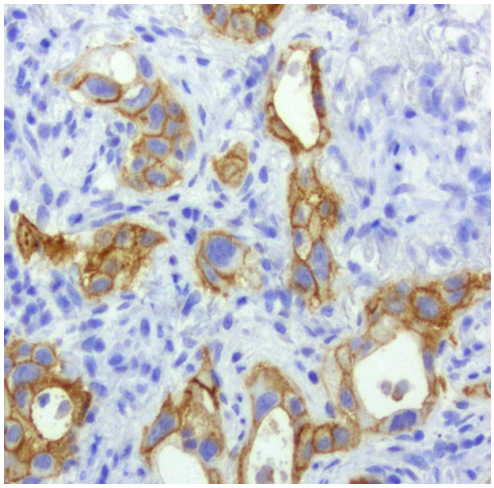
Immunohistochemical staining of paraffin-embedded Human prostate tissue using anti-EGFR mouse monoclonal antibody. (UM500070; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



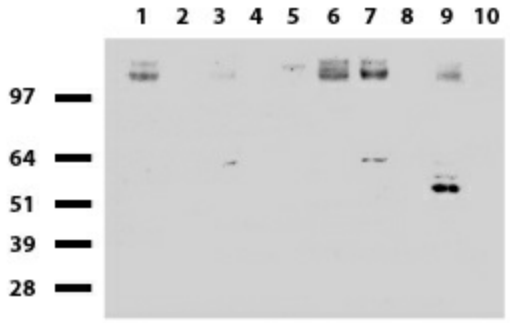
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-EGFR mouse monoclonal antibody. (UM500070; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



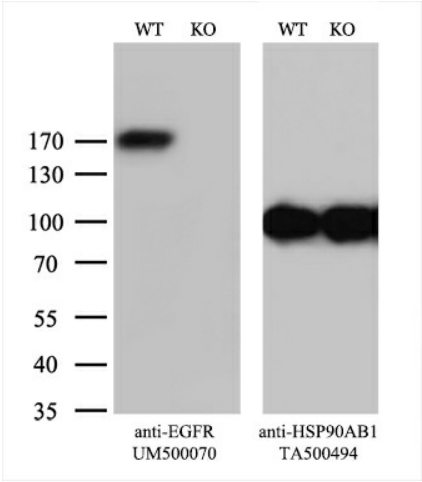
Immunohistochemical staining of paraffin-embedded human placenta with mouse anti-EGFR clone UMAB95 1:200 dilution of 400ug/mL using HIER citrate pH6.0 pressure chamber. Placenta known to express high levels in the cytoplasm and membrane trophoblastic cells



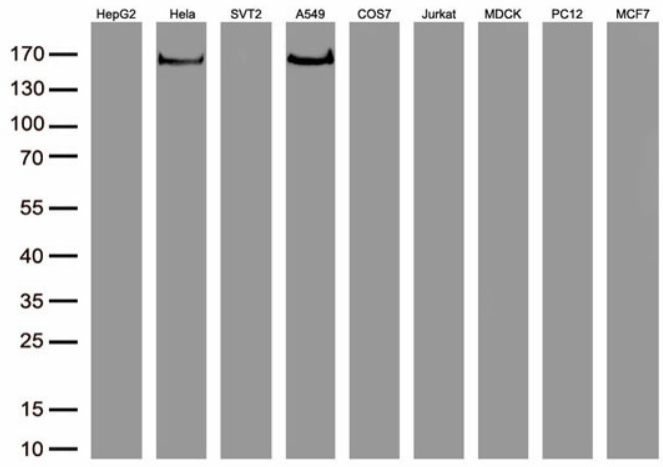
Immunohistochemical staining of paraffin-embedded human lung cancer with mouse anti-EGFR clone UMAB95 1:200 dilution of 400ug/mL using HIER citrate pH6.0 pressure chamber. Expression in lung cancer cells are cytoplasmic and membraneous



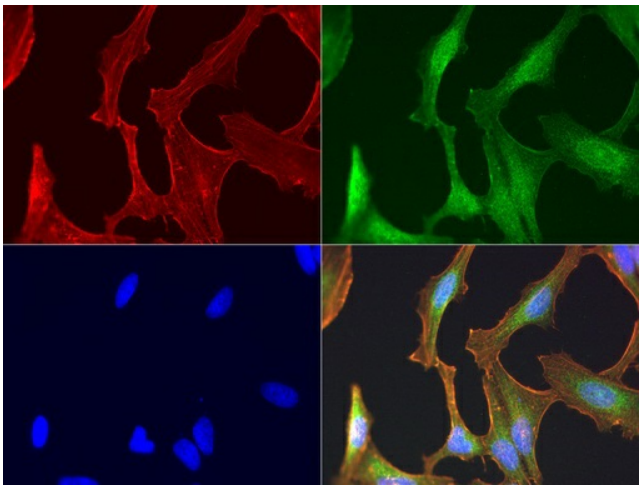
Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen). Diluation: 1:250.



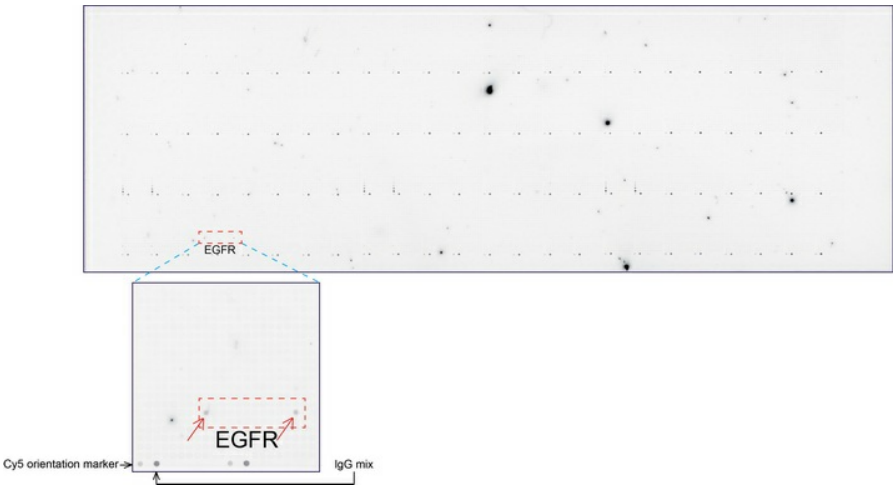
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and EGFR-Knockout HeLa cells (KO, Cat# [LC831281]) were separated by SDS-PAGE and immunoblotted with anti-EGFR monoclonal antibody UM500070 (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



Western blot analysis of extracts (35ug) from 9 different cell lines using an anti-EGFR monoclonal antibody (Clone UMAB95).



Immunofluorescent staining of HeLa cells using anti-EGFR mouse monoclonal antibody (UM500070, green, 1:50). Actin filaments were labeled with TRITC-phalloidin (red), and nuclear with DAPI (blue).



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-EGFR mouse monoclonal antibody (UM500070). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification.