

Product Datasheet

EGF Receptor / EGFR Antibody (orb2641194)

Catalog Number	orb2641194
Category	Antibodies
Description	This MAb recognizes a protein of 170kDa, identified as EGFR. EGFR is type I receptor tyrosine kinase with sequence homology to erbB-1, -2, -3 -4 or HER-1, -2, -3 -4. It binds to Epidermal Growth Factor (EGF), Transforming Growth Factor- α (TGF- α), Heparin-binding EGF (HB-EGF), amphiregulin, betacellulin and epiregulin. EGFR is overexpressed in tumors of breast, brain, bladder, lung, gastric, head & neck, esophagus, cervix, vulva, ovary, and endometrium. It is predominantly present in squamous cell carcinomas.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Purity	Protein G affinity chromatography
Immunogen	A portion of amino acids 344-492 from the human protein was used as the immunogen for the EGFR antibody.
UniProt ID	P00533
Tested applications	IHC-P, WB
Dilution range	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT, Western blot: 1-2ug/ml

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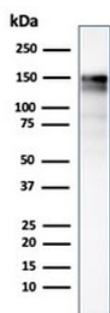
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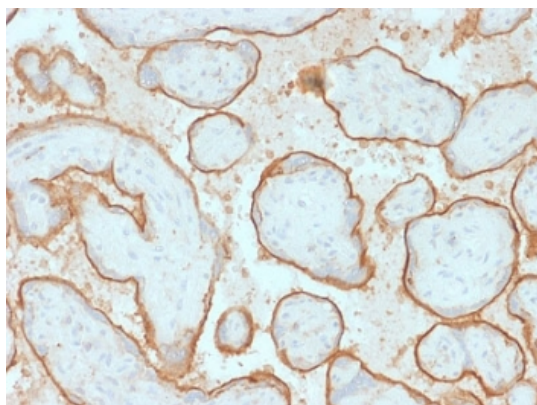
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Application notes	Titring of the EGFR antibody may be required for optimal performance.
Antibody Type	Primary Antibody
Clone Number	GFR/2341
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Hazard Information	This EGFR antibody is available for research use only.
Note	For research use only



Western blot testing of A431 lysate using EGFR antibody (clone GFR/2341). Expected molecular weight: 134-180 kDa depending on glycosylation level.



IHC testing of FFPE human placenta with EGFR antibody (clone GFR/2341). Required HIER: boiling tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min.

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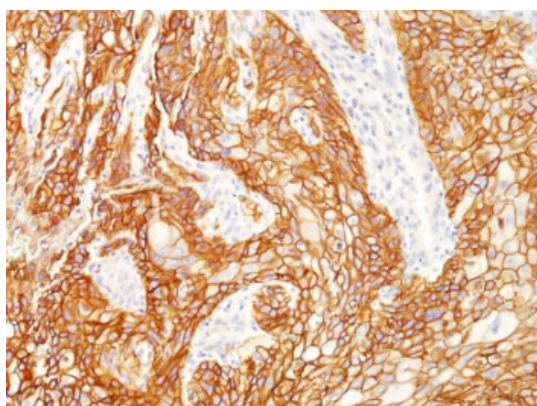
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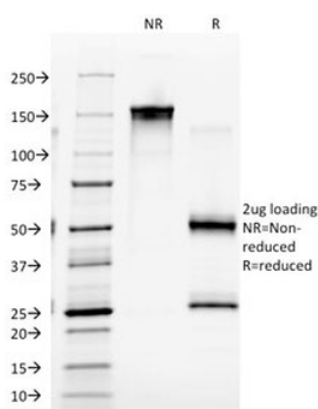
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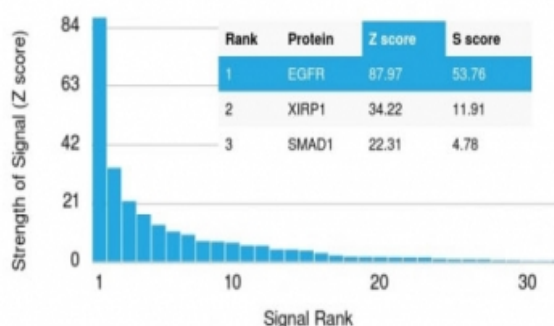


IHC testing of FFPE human lung squamous cell carcinoma with EGFR antibody (clone GFR/2341). Required HIER: boiling tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min.



SDS-PAGE analysis of purified, BSA-free EGFR antibody (clone GFR/2341) as confirmation of integrity and purity.

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using EGFR antibody (clone GFR/2341). These results demonstrate the foremost specificity of the GFR/2341 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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