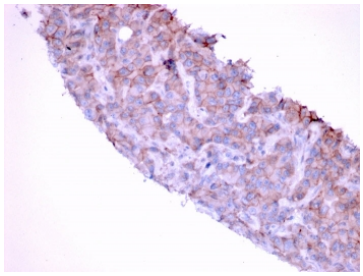
# EGF Receptor Antibody [clone GFR/1667] (V3730)

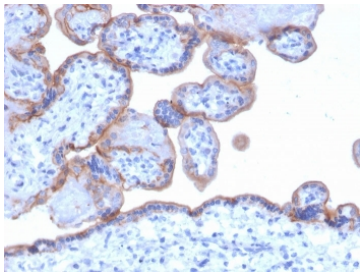
| Catalog No. | Formulation | Size |
|---|---|---|
| V3730-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V3730-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V3730SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V3730IHC-7ML | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml |

## Bulk quote request

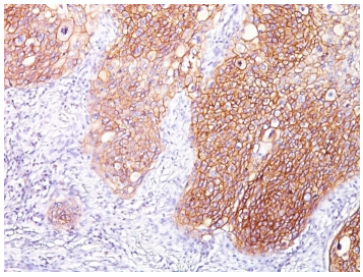
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | GFR/1667 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P00533 |
| **Localization** | Cell surface |
| **Applications** | Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT<br>Western blot: 1-2ug/ml |
| **Limitations** | This EGF Receptor antibody is available for research use only. |



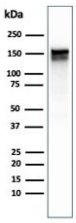
EGF Receptor Antibody Bladder IHC. Immunohistochemistry testing of FFPE human bladder with EGF Receptor antibody (clone GFR/1667). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



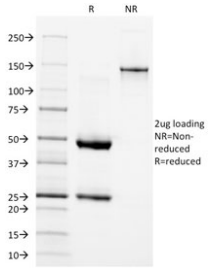
EGF Receptor Antibody Placenta IHC. Immunohistochemistry testing of FFPE human placenta with EGF Receptor antibody (clone GFR/1667). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



EGF Receptor Antibody Lung Squamous Cell Carcinoma IHC. Immunohistochemistry testing of FFPE human lung squamous cell carcinoma with EGF Receptor antibody (clone GFR/1667). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




Western blot testing of A431 lysate using EGFR antibody (clone GFR/1667). Expected molecular weight: 134-180 kDa depending on glycosylation level.




SDS-PAGE analysis of purified, BSA-free EGF Receptor antibody (clone GFR/1667) as confirmation of integrity and purity.

## Description

Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA/TGF-alpha, amphiregulin, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin. [UniProt]

Explore our EGFR Antibody (31G7) page for a broader view of EGFR expression and extensively validated antibody performance across applications.

## Application Notes

Titering of the EGF Receptor antibody may be required for optimal performance.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Purified recombinant human EGFR was used as the immunogen for the EGF Receptor antibody.

## Storage

Store the EGF Receptor antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).


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