Product Datasheet

EGF Antibody
NBP1-19806

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Reviews: 3 Publications: 8

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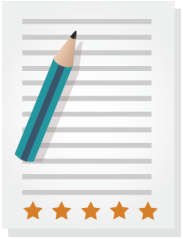
Updated 3/9/2022 v.20.1



NBP1-19806

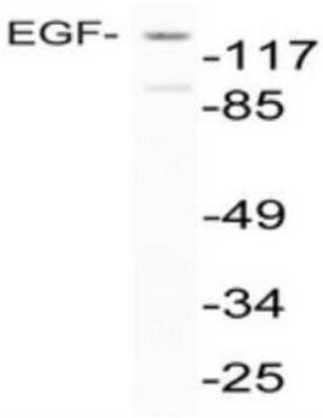
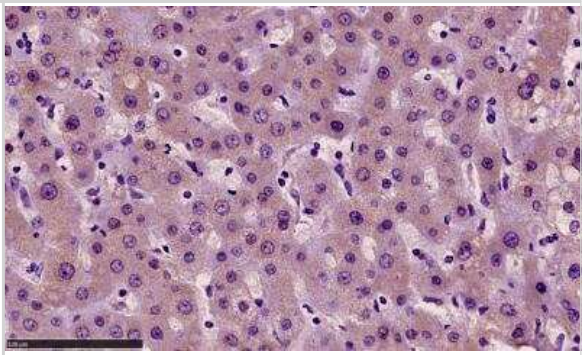
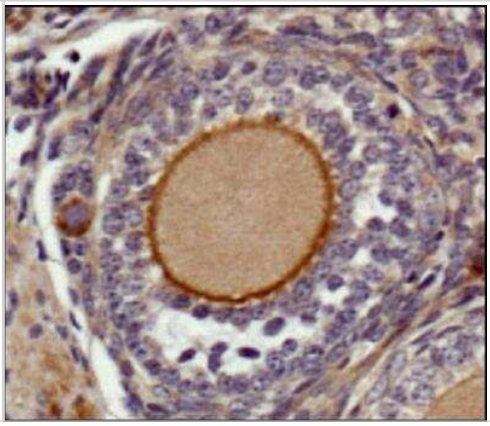
EGF Antibody

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	1950
Gene Symbol	EGF
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide made to an internal portion of the human EGF protein (between amino acids 700-800) [UniProt P01133]

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 ug/mL, Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200

Images

Western Blot: EGF Antibody [NBP1-19806] - Analysis of EGF (R709) pAb in extracts from NIH-3T3 cells.	
Immunohistochemistry-Paraffin: EGF Antibody [NBP1-19806] - Human hepatocellular carcinoma (HCC). Antibody at 1:100. Heat/citrate buffer antigen retrieval. Permeabilization with 2% Triton X-100. Counterstained with hematoxylin. IHC-P image submitted by a verified customer review.	
Immunohistochemistry: EGF Antibody [NBP1-19806] - Human brain tissue.	
Immunohistochemistry-Paraffin: EGF Antibody [NBP1-19806] - Staining of cells surrounding a follicle and the cytoplasm of the follicle using anti-EGF antibody.	

Publications

Aidoukovitch A, Bodahl S, Tufvesson E, Nilsson BO Desquamated Epithelial Cells of Unstimulated Human Whole Saliva Express Both EGF Transcript and Protein International journal of dentistry 2022-12-17 [PMID: 36573202] (DB, Human)

da Rocha J, Bastos L, Domingues S et al. APP binds to the EGFR ligands HB-EGF and EGF, acting synergistically with EGF to promote ERK signaling and neuritogenesis Mol Neurobiol 2020-10-03 [PMID: 33009641]

Guo FF, Xiao M, Wang SY et al. Downregulation of mitogen-activated protein kinases (MAPKs) in chronic ethanol-induced fatty liver Toxicol. Mech. Methods 2020-04-01 [PMID: 32237978]

Chou Pr, Lin Yn, Wu Sh et Al. Supercritical Carbon Dioxide-decellularized Porcine Acellular Dermal Matrix combined with Autologous Adipose-derived Stem Cells: Its Role in Accelerated Diabetic Wound Healing Int J Med Sci 2020-02-04 [PMID: 32132871] (IHC-P, Rat)

Lee CY, Yang CY, Lin CC et al. Hair growth is promoted by BeauTop via expression of EGF and FGF-7 Mol Med Rep 2018-06-01 [PMID: 29693180] (IF/IHC, Mouse)

Ren W, Sun Y, Cheema S, Du Ket al. Interaction of Constitutive Photomorphogenesis 1 Protein with Protein-Tyrosine Phosphatase 1B Suppresses Protein-Tyrosine Phosphatase 1B Activity and Enhances Insulin Signaling. J Biol Chem 2013-04-12 [PMID: 23439647] (Human)

Bretschi M, Cheng C, Witt H et al. Cilengitide affects tumor compartment, vascularization and microenvironment in experimental bone metastases as shown by longitudinal (18)F-FDG PET and gene expression analysis J Cancer Res Clin Oncol 2012-12-11 [PMID: 23229276] (IF/IHC, Human)

Sette G, Salvati V, Memeo L et al. EGFR Inhibition Abrogates Leiomyosarcoma Cell Chemoresistance through Inactivation of Survival Pathways and Impairment of CSC Potential PLoS One 2012-01-01 [PMID: 23056514] (IF/IHC, Human)

Procedures

Western Blot protocol for EGF Antibody (NBP1-19806)
EGF Antibody:
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 25 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute anti-EGF primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

Immunohistochemistry-Paraffin protocol for EGF Antibody (NBP1-19806)
EGF Antibody:
Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

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Limitations
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