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Anti-EGFR (ErbB 1) Monoclonal Antibody

Catalog Number: M00023-2

Overview

Product Name	Anti-EGFR (ErbB 1) Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-EGFR (ErbB 1) Monoclonal Antibody catalog # M00023-2. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal AEF-5
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P00533

Technical Details

Immunogen	A synthesized peptide derived from human EGFR (ErbB 1)
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:1000-5000 IHC 1:50-200 ICC/IF 1:50-200 IP 1:20 FC 1:20

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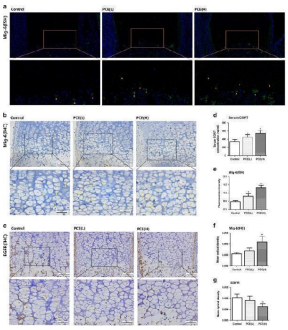
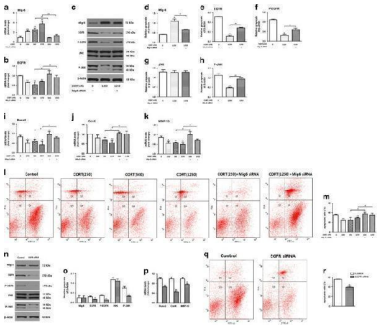
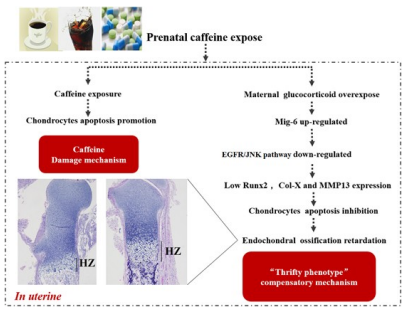
Anti-EGFR (ErbB 1) Monoclonal Antibody (M00023-2) Images



Effects of PCE on the expression changes of Mig-6 and EGFR in fetal long-bone hypertrophic chondrocytes. (a) ISH of Mig-6 in hypertrophic chondrocytes. (b) Immunostaining of Mig-6 in hypertrophic chondrocytes. (c) Immunostaining of EGFR in hypertrophic chondrocytes. (d) Serum corticosterone (CORT) concentration of fetal rats (ng/ml). (e) Quantification of Mig-6 ISH (fluorescence intensity). (f) Quantification of Mig-6 immunostaining (optical density). (g) Quantification of EGFR immunostaining (optical density). n =5 per group obtained from different litters. Three random fields/section for quantitative. Data are shown as the mean±S.D. * P



Effects of corticosterone (250–1250 nM) with/without siRNA (Mig-6, EGFR) for 48 h on rats primary chondrocytes terminal differentiation and apoptosis. (a and b) mRNA expression of mitogen-inducible gene 6 (Mig-6) and EGFR after corticosterone and Mig-6 siRNA treatment, (c) Protein expression of Mig-6, EGFR, phosphorylated EGFR (P-EGFR), c-Jun N-terminal kinase (JNK) and Phosphorylated JNK (P-JNK) detected by western blotting after corticosterone and Mig-6 siRNA treatment. (d – h) Quantification of Mig-6, EGFR, P-EGFR, JNK and P-JNK (relative grayscale). (i – k) mRNA expression of runt-related transcription factor 2 (Runx2), collagen type X (Col-X) and matrix metalloproteinases-13 (MMP-13) after corticosterone and Mig-6 siRNA treatment. (l and m) Apoptotic analysis detected by Annexin V/PI after corticosterone and Mig-6 siRNA treatment. (n) Protein expression of EGFR, JNK and P-JNK detected by western blotting after EGFR siRNA treatment. (o) Quantification of Mig-6, EGFR, P-EGFR, JNK and P-JNK (Relative grayscale). (p) mRNA expression of Runx2, Col-X and MMP-13 after EGFR siRNA treatment. (q) Apoptotic analysis detected by Annexin V/PI after EGFR siRNA treatment. Data are shown as the mean±S.D. of results from three experiments. * P



The proposed schematic model of the present study. Col-X, collagen type X; EGFR, epidermal growth factor receptor; JNK, c-Jun N-terminal kinase; Mig-6, mitogen-inducible gene 6; MMP-13, matrix metallopeptidase 13; Runx2, runt-related transcription factor 2 Index in PubMed under a CC BY license. PMID: 29072695

Western blot analysis of EGFR using anti-EGFR antibody (M00023-2). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549-WT whole cell lysates, Lane 2: human A549-EGFR KO whole

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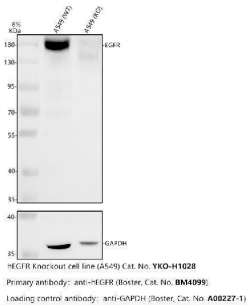
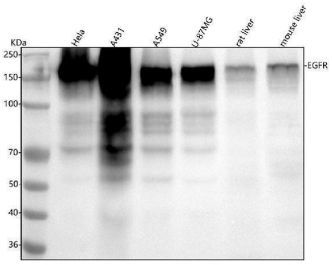
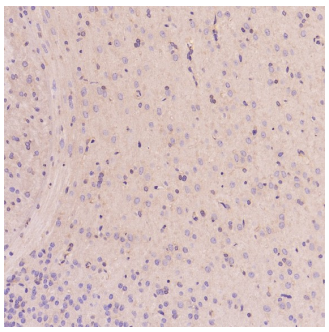


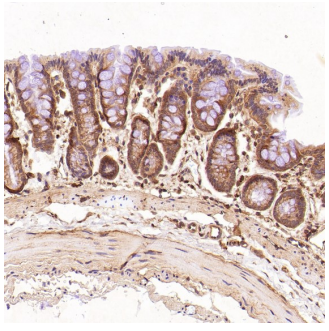
cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EGFR antigen affinity purified monoclonal antibody (M00023-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for EGFR at approximately 175 kDa. The expected band size for EGFR is at 134 kDa.



Western blot analysis of EGFR using anti-EGFR antibody (M00023-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human A431 whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human U-87MG whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: mouse liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EGFR antigen affinity purified monoclonal antibody (Catalog # M00023-2) at 1:5000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for EGFR at approximately 175 kDa. The expected band size for EGFR is at 134 kDa.



Immunohistochemical analysis of paraffin-embedded Rat cerebral cortex, using the Antibody at 1:100 dilution.



Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:100 dilution.

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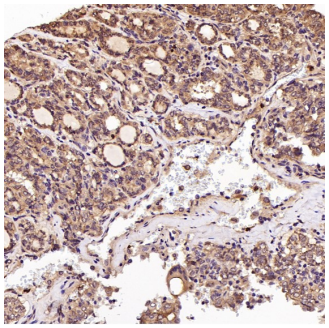
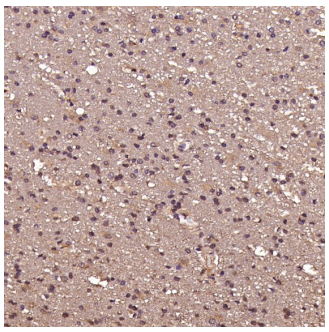
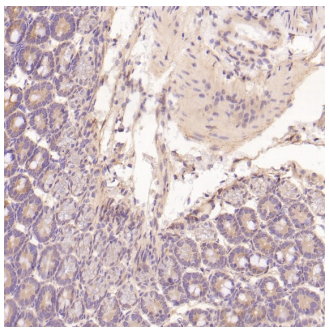


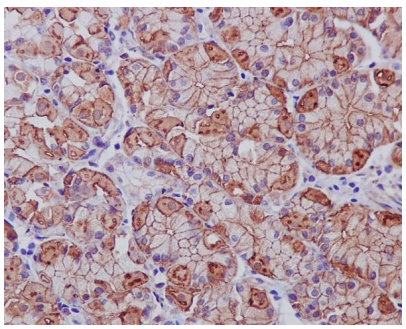
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer, using the Antibody at 1:100 dilution.



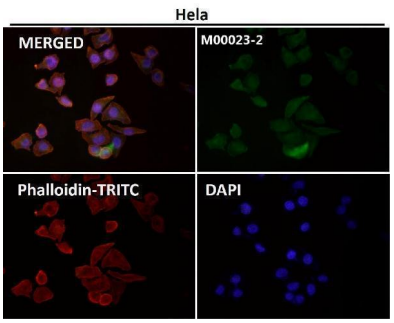
Immunohistochemical analysis of paraffin-embedded Human glioblastoma, using the Antibody at 1:100 dilution.



Immunohistochemical analysis of paraffin-embedded Mouse intestine, using the Antibody at 1:100 dilution.



Immunohistochemical analysis of paraffin-embedded human stomach cancer, using EGFR (ErbB 1) Antibody.



Immunofluorescent analysis using the Antibody at 1:50 dilution.

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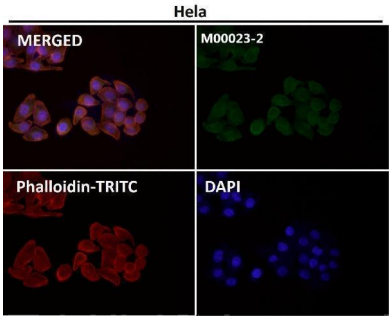
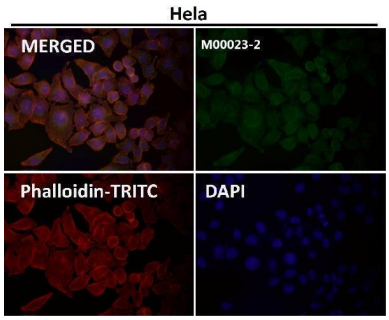
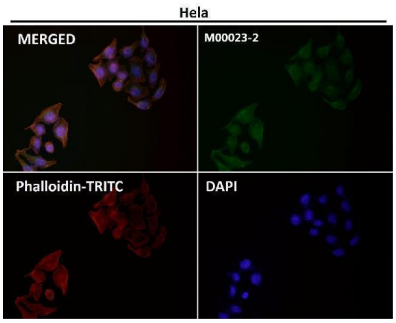


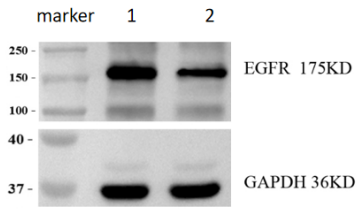
Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:150 dilution.



Immunofluorescent analysis using the Antibody at 1:500 dilution.



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1 Publications Citing This Product

BOSTER BIOLOGICAL TECHNOLOGY
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1. PubMed ID: -, Study of the correlation between the expression of nuclear factor kappa B and proliferation regulatory proteins and chronic superficial gastritis,Hu Hui,Ma Zhijian,Ren Shouzhong,Xie Yiqiang, Vojnosanitetski pregled 2020 OnLine-First,00,SP - 135 EP-135

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Anti-EGFR (ErbB 1) Monoclonal Antibody

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