Datasheet for ABIN3042717

anti-EGF antibody (C-Term)

2 Images | 3 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	EGF
Binding Specificity:	AA 1013-1029, C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EGF antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Pro-epidermal growth factor(EGF) detection. Tested with WB, IHC-P in Mouse.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of mouse EGF(1013-1029aa YSGDRCQTRDLRWWELR).
Sequence:	YSGDRCQTRD LRWWELR
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Pro-epidermal growth factor(EGF) detection. Tested with WB, IHC-P in Mouse. Gene Name: epidermal growth factor Protein Name: Pro-epidermal growth factor(EGF)

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	EGF
Alternative Name:	EGF (EGF Products)
Background:	EGF is known as epidermal growth factor. This gene encodes a member of the epidermal growth factor superfamily. The encoded preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. Additionally, it acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this gene are the cause of hypomagnesemia type 4. Dysregulation of this gene has been associated with the growth and progression of certain cancers. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. Synonyms: Beta urogastrone antibody|EGF antibody|Egf antibody|EGF_HUMAN antibody|Epidermal Growth Factor antibody|Epidermal Growth Factor antibody|HOMG4 antibody|OTTHUMP00000219721 antibody|OTTHUMP00000219722 antibody|Pro epidermal growth factor antibody|URG antibody|Urogastrone antibody
UniProt:	P01132
Pathways:	NF-kappaB Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Carbohydrate Metabolic Process, Hepatitis C, Protein targeting to Nucleus, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, EGFR Downregulation

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.

Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

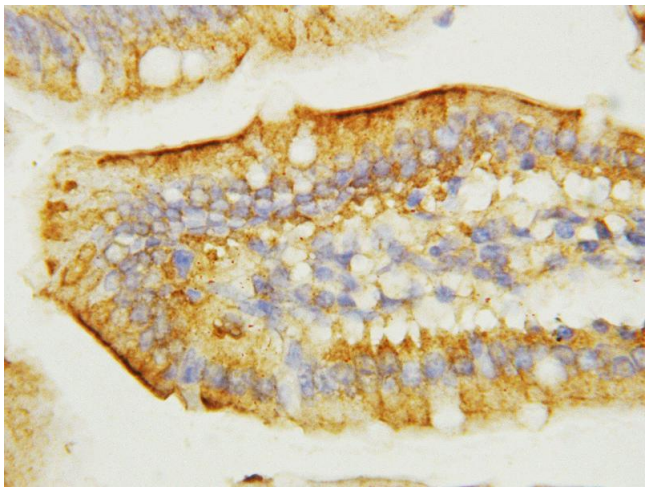
Publications

Product cited in:	Wang, Li, Fu, Li, Yang, Zhang, Zhu, Yang, Gu, Xing, Zhang: "Exemestane Attenuates Hepatic Fibrosis in Rats by Inhibiting Activation of Hepatic Stellate Cells and Promoting the Secretion of Interleukin 10." in: **Journal of immunology research**, Vol. 2017, pp. 3072745, (2018) (PubMed). Ruan, Jin, Zhang, Wang, Chen, Ding, Wen: "Peptide-chaperone-directed transdermal protein delivery requires energy." in: **Molecular pharmaceutics**, Vol. 11, Issue 11, pp. 4015-22, (2014) (PubMed). Ge, Yu, Petitte, Zhang: "Epidermal growth factor-induced proliferation of chicken primordial germ cells: involvement of calcium/protein kinase C and NFKB1." in: **Biology of reproduction**,

Publications

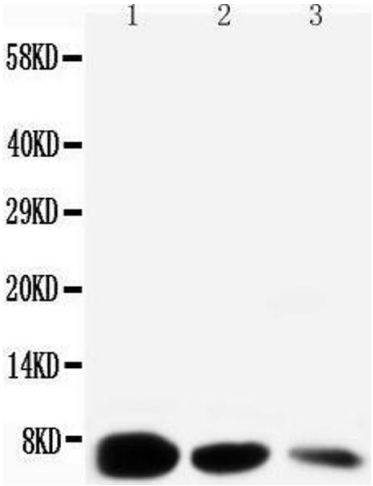
Vol. 80, Issue 3, pp. 528-36, (2009) (PubMed).

Images



Immunohistochemistry

Image 1. Anti-EGF antibody, IHC(P) IHC(P): Mouse Intestine Tissue



Western Blotting

Image 2. Anti-EGF antibody, Western blotting Lane 1: Recombinant Mouse EGF Protein 10ng Lane 2: Recombinant Mouse EGF Protein 5ng Lane 3: Recombinant Mouse EGF Protein 2.5ng