

Product datasheet

Anti-CTGF antibody [EPR20728] - BSA and Azide free ab231824

Recombinant RabMAb

2 Images

Overview

Product name	Anti-CTGF antibody [EPR20728] - BSA and Azide free
Description	Rabbit monoclonal [EPR20728] to CTGF - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment aa 1-300. The exact sequence is proprietary. Database link: P29279
Positive control	WB: Starved NIH/3T3 cells treated with TGF- β 1 and Heparin sodium salt whole cell lysate. HepG2 whole cell lysate.
General notes	Ab231824 is the carrier-free version of ab209780 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

ab231824 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20728
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab231824** in the following tested applications.

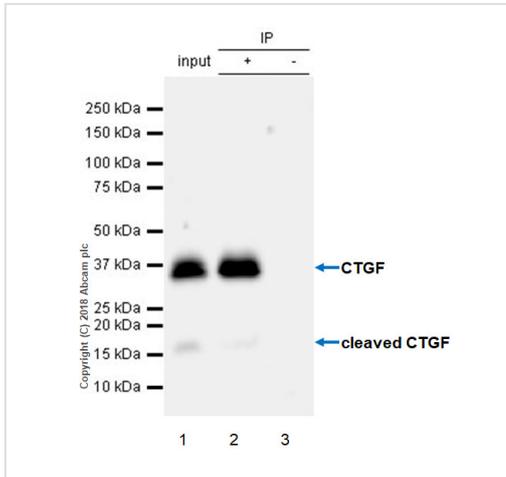
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 38 kDa.

Target

Function	Major connective tissue chemoattractant secreted by vascular endothelial cells. Promotes proliferation and differentiation of chondrocytes. Mediates heparin- and divalent cation-dependent cell adhesion in many cell types including fibroblasts, myofibroblasts, endothelial and epithelial cells. Enhances fibroblast growth factor-induced DNA synthesis.
Tissue specificity	Expressed in bone marrow and thymic cells. Also expressed one of two Wilms tumors tested.
Sequence similarities	Belongs to the CCN family. Contains 1 CTCK (C-terminal cystine knot-like) domain. Contains 1 IGFBP N-terminal domain. Contains 1 TSP type-1 domain. Contains 1 VWFC domain.
Cellular localization	Secreted > extracellular space > extracellular matrix. Secreted.

Images



Immunoprecipitation - Anti-CTGF antibody [EPR20728] - BSA and Azide free (ab231824)

CTGF was immunoprecipitated from 0.35 mg HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate with [ab209780](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab209780](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/5000 dilution.

Lane 1: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate 10 µg (Input).

Lane 2: [ab209780](#) IP in HepG2 whole cell lysate (+).

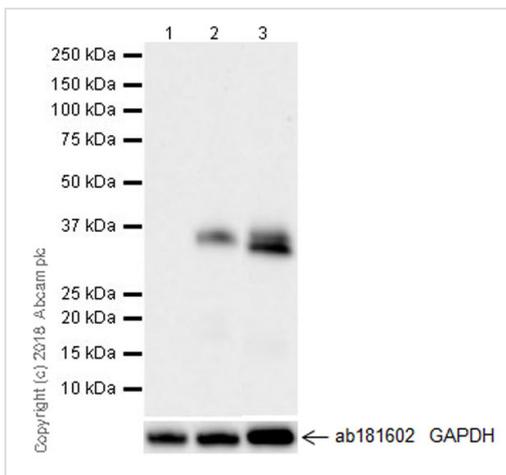
Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab209780](#) in HepG2 whole cell lysate (-).

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 3 minutes.

The molecular mass observed is consistent with the literature. (PMID:27126736)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab209780](#)).



Western blot - Anti-CTGF antibody [EPR20728] - BSA and Azide free (ab231824)

All lanes : Anti-CTGF antibody [EPR20728] ([ab209780](#)) at 1/1000 dilution

Lane 1 : NIH/3T3 (mouse embryonic fibroblast) starved for 18 hours, whole cell lysate

Lane 2 : NIH/3T3 starved for 18 hours, then treated with 10 ng/ml transforming growth factor-β (TGF-β1, [ab50036](#)) and 50 µg/ml Heparin sodium salt for 24 hours, whole cell lysate

Lane 3 : HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 38 kDa

Blocking/Dilution buffer and concentration: 5% NFD/MTBST.

The level of CTGF expression can be induced by TGF β treatment (PMID: 17786299).

CTGF is constitutively expressed in HepG2 cells (PMID:15886528).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab209780](#)).

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