abcam

Product datasheet

Anti-FGF2 antibody [EPR20145-219] - BSA and Azide free ab271983



6 Images

Overview

Product name Anti-FGF2 antibody [EPR20145-219] - BSA and Azide free

Description Rabbit monoclonal [EPR20145-219] to FGF2 - BSA and Azide free

Host species Rabbit

Tested applications Suitable for: Indirect ELISA, Flow Cyt (Intra), IP, ICC/IF, WB

Species reactivity Reacts with: Human, Recombinant fragment

Immunogen Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: Recombinant human FGF2 active protein (aa143-288); K562, U-87 MG and SK-OV-3 whole

cell lysates; Human fetal kidney, prostate, fetal heart and testis lysates. ICC/IF: U-87 MG and SK-

OV-3 cells. Flow Cyt (intra): K562 cells. IP: K562 whole cell lysate.

General notes ab271983 is the carrier-free version of ab208687.

> Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cellbased assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

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.

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. 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**.

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Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C. Do Not Freeze.

Storage buffer pH: 7.2

Constituent: PBS

Carrier free Yes

Purity Protein A purified

Clonality Monoclonal

Clone number EPR20145-219

Isotype IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab271983 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
Indirect ELISA		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 30 kDa.

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Function Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell

differentiation and cell migration. Functions as potent mitogen in vitro. Can induce angiogenesis

(PubMed:23469107).

Tissue specificity Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in

non-cancerous liver tissue.

Sequence similaritiesBelongs to the heparin-binding growth factors family.

Post-translational Phosphorylation at Tyr-215 regulates FGF2 unconventional secretion.

modifications Several N-termini starting at positions 94, 125, 126, 132, 143 and 162 have been identified by

direct sequencing.

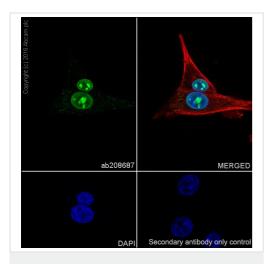
Cellular localization Secreted. Nucleus. Exported from cells by an endoplasmic reticulum (ER)/Golgi-independent

mechanism. Unconventional secretion of FGF2 occurs by direct translocation across the plasma

membrane. Binding of exogenous FGF2 to FGFR facilitates endocytosis followed by

translocation of FGF2 across endosomal membrane into the cytosol. Nuclear import from the cytosol requires the classical nuclear import machinery, involving proteins KPNA1 and KPNB1, as well as CEP57.

Images



Immunocytochemistry/ Immunofluorescence - Anti-FGF2 antibody [EPR20145-219] (ab271983)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells labeling FGF2 with <u>ab208687</u> at 1/500 dilution, followed by Goat anti-rabbit lgG (Alexa Fluor[®] 488) (<u>ab150077</u>) secondary antibody at 1/1000 dilution (green).

Confocal image showing nuclear and weak cytoplasmic staining on U-87 MG cell line.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with <u>ab195889</u> (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit lgG (Alexa Fluor[®] 488) (ab150077) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab208687).

ab208687 MERGED

Secondary antibody only control

Immunocytochemistry/ Immunofluorescence - Anti-FGF2 antibody [EPR20145-219] (ab271983)

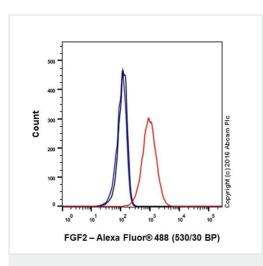
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SK-OV-3 (Human ovarian cancer cell line) cells labeling FGF2 with <u>ab208687</u> at 1/500 dilution, followed by Goat anti-rabbit lgG (Alexa Fluor[®] 488) (<u>ab150077</u>) secondary antibody at 1/1000 dilution (green).

Confocal image showing nuclear weak cytoplasmic staining on SK-OV-3 cell line.

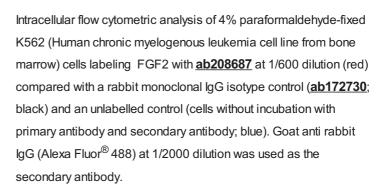
The nuclear counterstain is DAPI (blue). Tubulin is detected with ab195889 (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit lgG (Alexa Fluor® 488) (ab150077) at 1/1000 dilution.

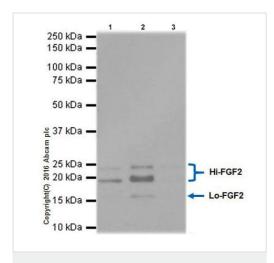
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab208687).



Flow Cytometry (Intracellular) - Anti-FGF2 antibody [EPR20145-219] - BSA and Azide free (ab271983)



This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab208687).



Immunoprecipitation - Anti-FGF2 antibody [EPR20145-219] (ab271983)

FGF2 was immunoprecipitated from 0.35 mg of K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate with <u>ab208687</u> at 1/30 dilution.

Western blot was performed from the immunoprecipitate using **ab208687** at 1/500 dilution.

VeriBlot for IP Detection Reagent (HRP) (<u>ab131366</u>), was used for detection at 1/1000 dilution.

Lane 1: K562 whole cell lysate 10µg (Input).

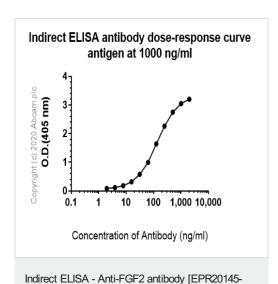
Lane 2: ab208687 IP in K562 whole cell lysate.

Lane 3: Rabbit monoclonal $\lg G$ ($\underline{ab172730}$) instead of $\underline{ab208687}$ in K562 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (<u>ab208687</u>).



This data was developed using ab208687, the same antibody clone in a different buffer formulation.

ELISA analysis of Mouse FGF2 recombinant protein at 1000 ng/ml with ab208687. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.





219] - BSA and Azide free (ab271983)



Consistent and Recombinant reproducible results





Confirmed specificity production

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