

Product datasheet

Anti-TGF beta 1 + 2 antibody [EPR5443] - BSA and Azide free ab183133

Recombinant RabMAb

[4 Images](#)

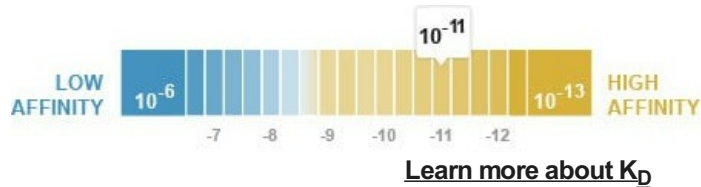
Overview

Product name	Anti-TGF beta 1 + 2 antibody [EPR5443] - BSA and Azide free
Description	Rabbit monoclonal [EPR5443] to TGF beta 1 + 2 - BSA and Azide free
Host species	Rabbit
Specificity	This antibody recognises TGF beta 1 and 2.
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Mouse, Human Does not react with: Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab183133 is the carrier-free version of ab124894.</p> <p>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.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	K _D = 8.64 x 10 ⁻¹¹ M



Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5443
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab183133 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
WB		Use at an assay dependent concentration. Predicted molecular weight: 44, 48 kDa.

Application notes Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

Target

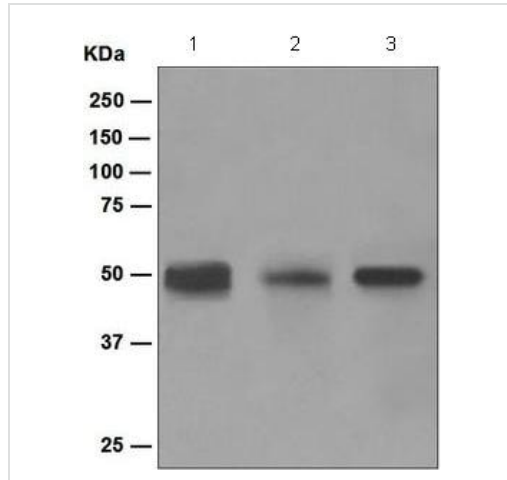
Relevance Function: TGF beta 1 is a multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGFB1 and have specific receptors for it. It positively and negatively regulates many other growth factors. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. The inactive form consists of a TGFB1 homodimer non-covalently linked to a latency-associated peptide (LAP) homodimer. The inactive complex can contain a latent TGFB1-binding protein. The active form is a homodimer of mature TGFB1; disulfide-linked. Heterodimers of TGFB1/TGFB2 have been found in bone. Interacts with CD109 and DPT. Interacts with ASPN. Function: TGF beta 2 has suppressive effects on interleukin-2 dependent T-cell growth. Tissue specificity: TGF beta 1 is highly expressed in bone. Abundantly expressed in articular cartilage and chondrocytes and is increased in osteoarthritis

(OA). Co-localizes with ASPN in chondrocytes within OA lesions of articular cartilage. Similarity: Both belong to the TGF-beta family.

Cellular localization

Secreted

Images



Western blot - Anti-TGF beta 1 + 2 antibody [EPR5443] - BSA and Azide free (ab183133)

All lanes : Anti-TGF beta 1 + 2 antibody [EPR5443] ([ab124894](#)) at 1/1000 dilution

Lane 1 : A549 cell lysate

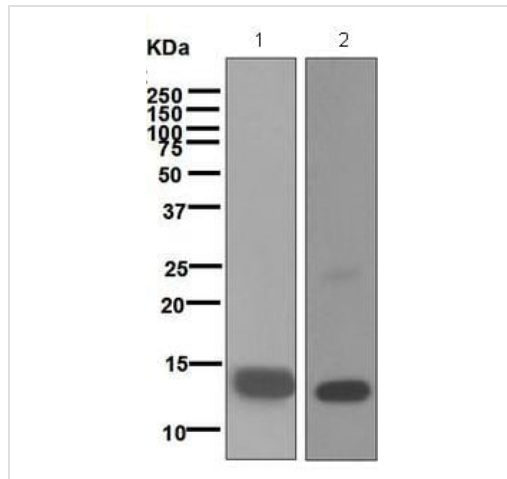
Lane 2 : K562 lysate

Lane 3 : L929 lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 44, 48 kDa

This data was developed using [ab124894](#), the same antibody clone in a different buffer formulation.

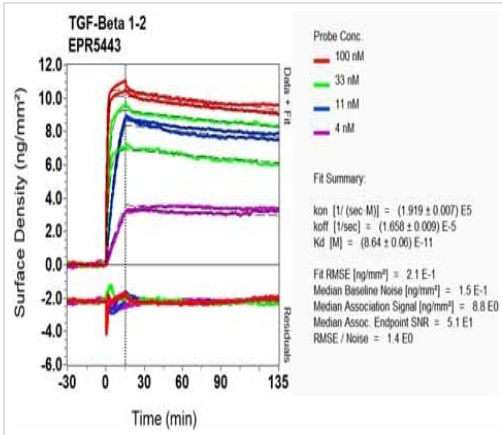


Western blot - Anti-TGF beta 1 + 2 antibody [EPR5443] - BSA and Azide free (ab183133)

Anti-TGF beta 1 + 2 antibody [EPR5443] ([ab124894](#)) at 1/1000 dilution + TGF beta 2 recombinant protein at 10 µg

Predicted band size: 44, 48 kDa

This data was developed using [ab124894](#), the same antibody clone in a different buffer formulation.



SPR Scanning - Anti-TGF beta 1 + 2 antibody
[EPR5443] - BSA and Azide free (ab183133)

This data was developed using **ab124894**, the same antibody clone in a different buffer formulation. Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-TGF beta 1 + 2 antibody [EPR5443] - BSA and Azide free (ab183133)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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