

Product datasheet

Anti-CD105 antibody [EPR10145-10] - BSA and Azide free ab249611

KO VALIDATED

Recombinant

RabMAb

2 Images

Overview

| | |
|---------------------|--|
| Product name | Anti-CD105 antibody [EPR10145-10] - BSA and Azide free |
| Description | Rabbit monoclonal [EPR10145-10] to CD105 - BSA and Azide free |
| Host species | Rabbit |
| Tested applications | Suitable for: IHC-P, WB Unsuitable for: Flow Cyt, ICC/IF or IP |
| Species reactivity | Reacts with: Human Does not react with: Mouse, Rat |
| Immunogen | Synthetic peptide within Human CD105 aa 1-200. The exact sequence is proprietary. Database link: P17813 |
| Positive control | WB: HeLa, MCF7, and HUVEC cell lysates. |
| General notes | <p>ab249611 is the carrier-free version of ab170943.</p> <p>According to our internal WB data, ab249611 does not react with mouse and rat.</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 |

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

| | |
|-----------------------------|---|
| 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 | EPR10145-10 |
| Isotype | IgG |

Applications

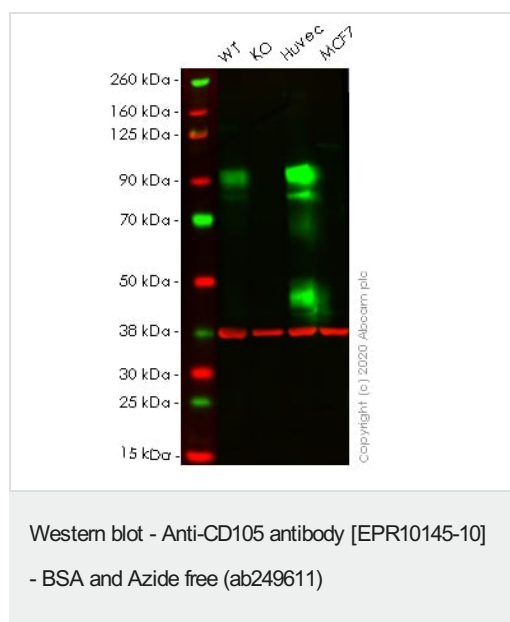
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab249611 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| IHC-P | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| WB | | Use at an assay dependent concentration. Predicted molecular weight: 70 kDa. |

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

Target

| | |
|-------------------------------|---|
| Function | Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors. |
| Tissue specificity | Endoglin is restricted to endothelial cells in all tissues except bone marrow. |
| Involvement in disease | Defects in ENG are the cause of hereditary hemorrhagic telangiectasia type 1 (HHT1) [MIM:187300, 108010]; also known as Osler-Rendu-Weber syndrome 1 (ORW1). HHT1 is an autosomal dominant multisystemic vascular dysplasia, characterized by recurrent epistaxis, muco-cutaneous telangiectases, gastro-intestinal hemorrhage, and pulmonary (PAVM), cerebral (CAVM) and hepatic arteriovenous malformations; all secondary manifestations of the underlying vascular dysplasia. Although the first symptom of HHT1 in children is generally nose bleed, there is an important clinical heterogeneity. |
| Cellular localization | Membrane. |



All lanes : Anti-CD105 antibody [EPR10145-10] ([ab170943](#)) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : ENG knockout HeLa cell lysate

Lane 3 : HUVEC cell lysate

Lane 4 : MCF7 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 70 kDa

Observed band size: 70-120 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab170943](#)).

Lanes 1-4: Merged signal (red and green). Green - [ab170943](#) observed at 70-120 kDa. Red - loading control [ab8245](#) observed at 37 kDa.

[ab170943](#) Anti-CD105 antibody [EPR10145-10] was shown to specifically react with CD105 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265178](#) (knockout cell lysate [ab256906](#)) was used. Wild-type and CD105 knockout samples were subjected to SDS-PAGE. [ab170943](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

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-CD105 antibody [EPR10145-10] - BSA and Azide free (ab249611)

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

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