abcam

Product datasheet

Anti-CD41 antibody ab63983

4 Abreviews 15 References 2 Images

Overview

Product name	Anti-CD41 antibody
Description	Rabbit polyclonal to CD41
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, IHC-P
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** a wide range of other species
Immunogen	Synthetic peptide corresponding to Human CD41 (N terminal). Synthetic peptide derived from the N terminal domain of Human CD41. Database link: P08514
General notes	This product was changed from whole antiserum to Protein A purified on 15th June 2016. The following lots are from whole antiserum and are still in stock as of 15th June 2016, GR264406-3, GR250036-5 , GR250036-4. Lot numbers higher than GR264406-3, will be Protein A purified. Please note that the dilutions may need to be adjusted accordingly.

Properties

Form	Liquid
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	Preservative: None
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab63983** 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	★★★★☆	1/100 - 1/5000. Predicted molecular weight: 113 kDa.
ICC/IF	★★☆☆☆	Use at an assay dependent concentration. PubMed: 20942599
IHC-P	★★★★★	Use at an assay dependent concentration.

Target

Function

Integrin alpha-IIb/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. It recognizes the sequence R-G-D in a wide array of ligands. It recognizes the sequence H-H-L-G-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface.

Tissue specificity

Isoform 1 and isoform 2 were identified in platelets and megakaryocytes, but not in reticulocytes or in Jurkat and U937 white blood cell line. Isoform 3 is expressed by leukemia, prostate adenocarcinoma and melanoma cells but not by platelets or normal prostate or breast epithelial cells.

Involvement in disease

Defects in ITGA2B are a cause of Glanzmann thrombasthenia (GT) [MIM:273800]; also known as thrombasthenia of Glanzmann and Naegeli. GT is the most common inherited disease of platelets. It is an autosomal recessive disorder characterized by mucocutaneous bleeding of mild-to-moderate severity and the inability of this integrin to recognize macromolecular or synthetic peptide ligands. GT has been classified clinically into types I and II. In type I, platelets show absence of the glycoprotein IIb/beta-3 complexes at their surface and lack fibrinogen and clot retraction capability. In type II, the platelets express the glycoprotein IIb/beta-3 complex at reduced levels (5-20% controls), have detectable amounts of fibrinogen, and have low or moderate clot retraction capability. The platelets of GT 'variants' have normal or near normal (60-100%) expression of dysfunctional receptors.

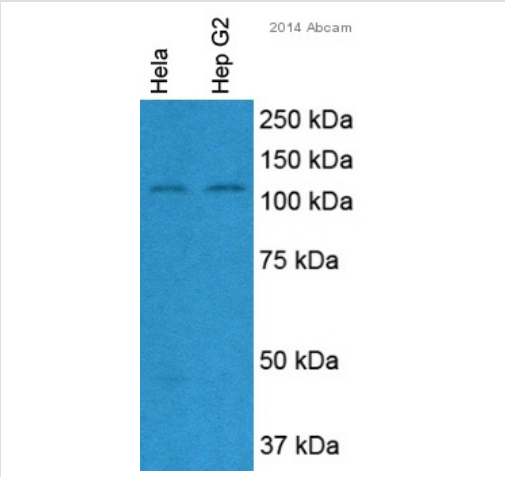
Sequence similarities

Belongs to the integrin alpha chain family.
Contains 7 FG-GAP repeats.

Cellular localization

Membrane.

Images



Western blot - Anti-CD41 antibody (ab63983)

This image is courtesy of an anonymous Abreview

All lanes : Anti-CD41 antibody (ab63983) at 1/10000 dilution

Lane 1 : HeLa whole cell lysate
Lane 2 : HepG2 whole cell lysate

Lysates/proteins at 25 µg per lane.

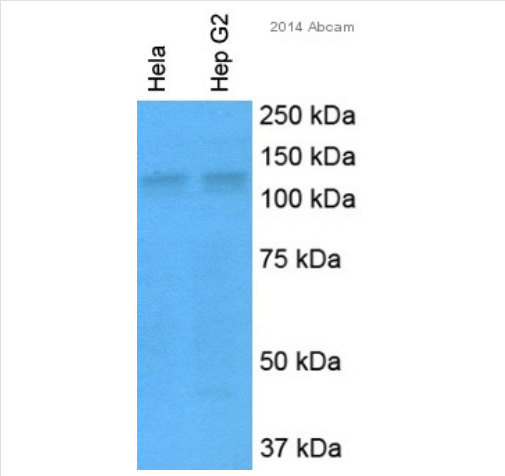
Secondary
All lanes : HRP-conjugated goat anti-rabbit IgG polyclonal at 1/20000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 113 kDa
Observed band size: 113 kDa

Exposure time: 15 seconds



Western blot - Anti-CD41 antibody (ab63983)

This image is courtesy of an anonymous Abreview

All lanes : Anti-CD41 antibody (ab63983) at 1/5000 dilution

Lane 1 : HeLa whole cell lysate
Lane 2 : HepG2 whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : HRP-conjugated goat anti-rabbit IgG at 1/20000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 113 kDa
Observed band size: 113 kDa

Exposure time: 10 seconds

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors