

## Product datasheet

# Anti-CD41 antibody ab63983

★★★★☆ 4 Abreviews 17 References 2 Images

### Overview

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<b>Product name</b>	Anti-CD41 antibody
<b>Description</b>	Rabbit polyclonal to CD41
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> a wide range of other species
<b>Immunogen</b>	Synthetic peptide corresponding to Human CD41 (N terminal). Synthetic peptide derived from the N terminal domain of Human CD41. Database link: <a href="#">P08514</a>
<b>General notes</b>	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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Preservative: None
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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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-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.

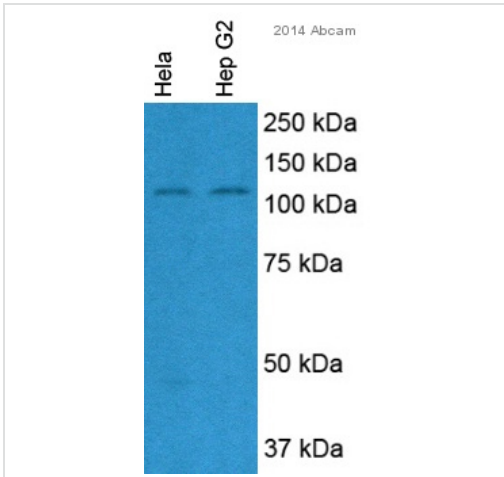
### Sequence similarities

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

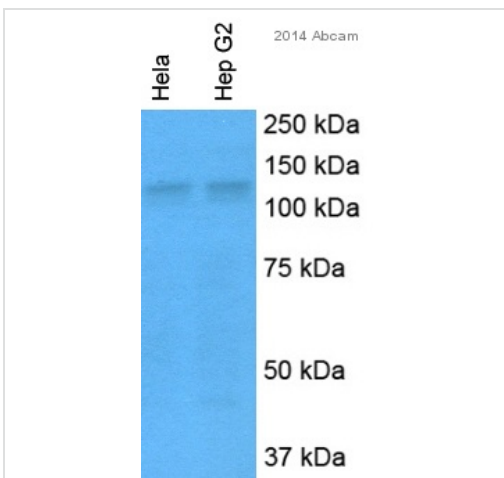
Developed using the ECL technique.

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"

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