


## Product datasheet

# Anti-URP2 antibody ab68040

★★★★☆ 6 Abreviews 5 References 4 Images

### Overview

<b>Product name</b>	Anti-URP2 antibody
<b>Description</b>	Rabbit polyclonal to URP2
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, ICC, IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Cow 
<b>Immunogen</b>	Synthetic peptide conjugated to KLH derived from within residues 50 - 150 of Human URP2. Read Abcam's proprietary immunogen policy.
<b>Positive control</b>	This antibody gave a positive signal in the following Tissue Lysates: Rat Kidney, Rat Thymus, Mouse Spleen This antibody gave a positive result in IHC in the following FFPE tissue: Human normal lung.

### Properties

<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 or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab68040** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

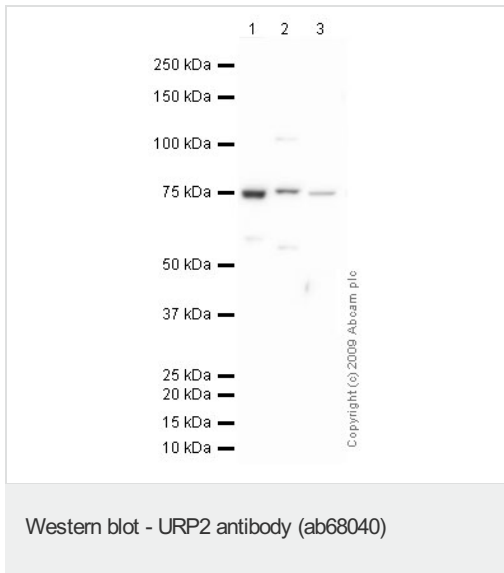
Application	Abreviews	Notes
Flow Cyt	★★★★☆	1/200. <a href="#">ab171870</a> -Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

Application	Abreviews	Notes
ICC	★★★★☆	Use at an assay dependent concentration.
IHC-P		Use a concentration of 5 µg/ml.
ICC/IF	★★★★☆	Use at an assay dependent concentration.
WB	★★★★★	Use a concentration of 1 µg/ml. Detects a band of approximately 76 kDa (predicted molecular weight: 76 kDa).

## Target

<b>Function</b>	Plays a central role in cell adhesion in hematopoietic cells. Acts by activating the integrin beta-1-3 (ITGB1, ITGB2 and ITGB3). Required for integrin-mediated platelet adhesion and leukocyte adhesion to endothelial cells. Required for activation of integrin beta-2 (ITGB2) in polymorphonuclear granulocytes (PMNs). Isoform 2 may act as a repressor of NF-kappa-B and apoptosis.
<b>Tissue specificity</b>	Highly expressed in lymph node. Expressed in thymus, spleen and leukocytes. Weakly expressed in placenta, small intestine, stomach, testis and lung. Overexpressed in B-cell malignancies.
<b>Involvement in disease</b>	Defects in FERMT3 are the cause of leukocyte adhesion deficiency type 3 (LAD3) [MIM:612840]; also called leukocyte adhesion deficiency 1 variant (LAD1v). LAD3 is a rare syndrome characterized by infections without pus formation in the presence of a leukocytosis combined with a Glanzmann-type bleeding disorder, resulting from a hematopoietic defect in integrin activation. Symptoms arise from an inability to activate the integrins expressed on hematopoietic cells, including platelets and leukocytes.
<b>Sequence similarities</b>	Belongs to the kindlin family. Contains 1 FERM domain. Contains 1 PH domain.
<b>Domain</b>	The FERM domain is not correctly detected by PROSITE or Pfam techniques because it contains the insertion of a PH domain.
<b>Cellular localization</b>	Cell projection > podosome. Present in the F-actin surrounding ring structure of podosomes, which are specialized adhesion structures of hematopoietic cells.

## Images



**All lanes :** Anti-URP2 antibody (ab68040) at 1 µg/ml

**Lane 1 :** Kidney (Rat) Tissue Lysate

**Lane 2 :** Spleen (Mouse) Tissue Lysate

**Lane 3 :** Thymus (Rat) Tissue Lysate

Lysates/proteins at 10 µg/ml per lane.

### Secondary

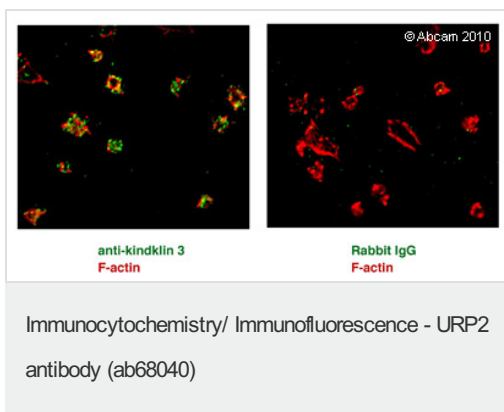
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

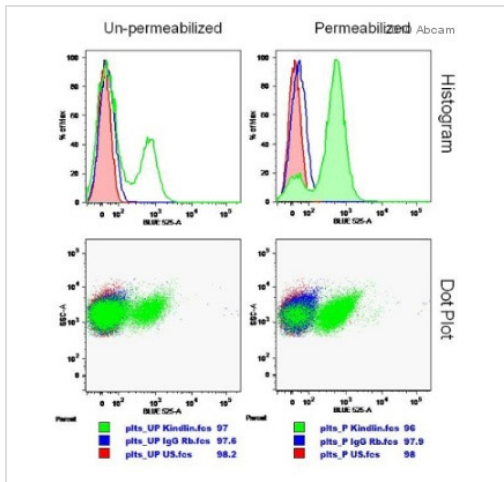
**Predicted band size :** 76 kDa

**Observed band size :** 76 kDa

**Exposure time :** 2 minutes



ab68040 used to detect URP2 in Immunocytochemistry/Immunofluorescence in mouse platelets spread on fibrinogen. URPE is co-localized to pseudopodial extensions and near membrane edges. Secondary only (anti-rabbit IgG) negative control was also used.

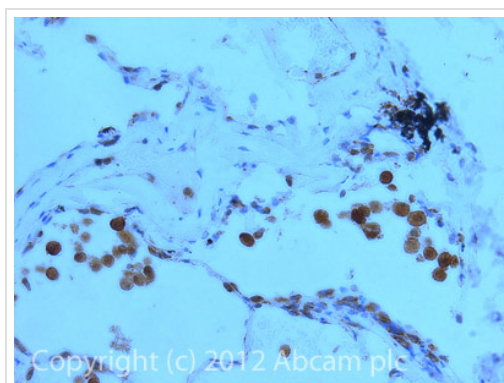


Flow Cytometry - URP2 antibody (ab68040)

This image is courtesy of an Abreview submitted by Mahesh Shivananjappa

ab68040 staining URP2 in Human platelets by Flow Cytometry. Platelets were isolated from Platelet rich plasma and suspended in PBS, fixed with paraformaldehyde and permeabilized with 0.1% Triton-X100 in 2% BSA for 30 minutes. The sample was incubated with the primary antibody (1/200 in PBS + 2% BSA) for 18 hours at 4°C. An Alexa Fluor®488-conjugated Chicken anti-rabbit IgG polyclonal (1/500) was used as the secondary antibody.

**Gating Strategy:** Platelets



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-URP2 antibody (ab68040)

IHC image of URP2 staining in Human normal lung formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab68040, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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