Datasheet for ABIN7043079

# anti-F2RL3 antibody (C149S, Extracellular) (APC)

## 2 Images

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## Overview

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| Quantity: | 50 µL |
| Target: | F2RL3 |
| Binding Specificity: | AA 136-150, C149S, Extracellular |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This F2RL3 antibody is conjugated to APC |
| Application: | Flow Cytometry (FACS), Live Cell Imaging (LCI) |

## Product Details

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| Purpose: | A Rabbit Polyclonal Antibody to PAR4 (F2RL3) (extracellular) conjugated to the fluorescent dye Allophycocyanin (APC) |
| Immunogen: | Immunogen: Synthetic peptide<br>Immunogen Sequence: (C)HLRGQRWPFGEAA(S)R, corresponding to amino acid residues 136-150 of human PAR4 |
| Isotype: | IgG |
| Specificity: | 1st extracellular loop |
| Cross-Reactivity: | Human, Mouse, Rat |
| Predicted Reactivity: | Rat,mouse - identical |
| Characteristics: | A Rabbit Polyclonal Antibody to PAR4 (F2RL3) (extracellular) conjugated to the fluorescent dye |

## Product Details

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| | Allophycocyanin (APC) |
| Purification: | Affinity purified on immobilized antigen. |

## Target Details

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| Target: | F2RL3 |
| Alternative Name: | F2RL3 (F2RL3 Products) |
| Background: | Protease-activated receptor-4, PAR-4, Coagulation factor II receptor-like 3, Thrombin receptor-like 3,Protease-activated receptor 4 (PAR-4) belongs to a family of four G protein-coupled receptors (PAR1-4) that are activated as a result of proteolytic cleavage by certain serine proteases, hence their name. In this novel modality of activation, a specific protease cleaves the PAR receptor within a defined sequence in its extracellular N-terminal domain. This results in the creation of a new N-terminal tethered ligand, which subsequently binds to a site in the second extracellular loop of the same receptor. This binding results in the coupling of the receptor to G proteins and in the activation of several signal transduction pathways.1-3Different PARs are activated by different proteases. Hence, PAR-4 is activated by both thrombin and trypsin whereas PAR-1 and PAR-3 are activated only by thrombin and PAR-2 is activated only by trypsin.1-3 PAR-4 can be also cleaved and activated by other proteases such as cathepsin G.The intracellular signaling mechanisms mediated by PAR-4 activation are not completely elucidated but they involve calcium mobilization downstream of phospholipase Cβ through the Gαq pathway.1-3Tissue distribution of PAR-4 is very broad with the highest expression levels found in lung, testis, pancreas and small intestine. In addition, PAR-4 expression was observed in platelets, megakaryocytes and leukocytes. Studies with platelets derived from PAR-4 knockout mice have established an essential role for PAR-4 in thrombin-induced platelet activation.PAR-4 is likely involved in other physiological functions such as regulation of gastrointestinal motility and regulation of vascular endothelial cell function.1-3<br><br>Alternative names: Protease-activated receptor-4, PAR-4, Coagulation factor II receptor-like 3, Thrombin receptor-like 3 |
| Gene ID: | 9002 |
| NCBI Accession: | NM_003950 |
| UniProt: | Q96RI0 |
| Pathways: | Carbohydrate Homeostasis, Regulation of Carbohydrate Metabolic Process |

## Application Details

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| Application Notes: | Antigen preadsorption control: 1 µg peptide per 1 µg antibody<br>Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A<br>Application Dilutions Western blot wb: N/A |
| Comment: | Negative Control: (ABIN7582043)<br>Blocking Peptide: (ABIN7235154) |
| Restrictions: | For Research Use only |

## Handling

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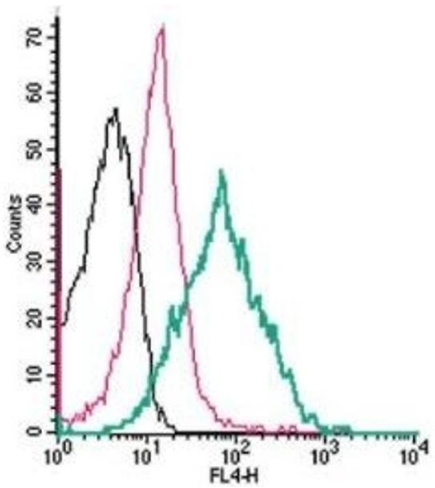
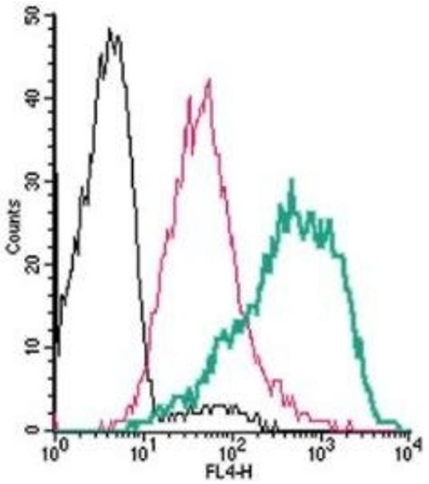
| Format: | Lyophilized |
| Reconstitution: | 15 µL or 50 µL double distilled water (DDW), depending on the sample size. |
| Concentration: | 1 mg/mL |
| Buffer: | PBS pH 7.4, 1 % BSA with 0.05 % sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.<br>Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min). |




**Flow Cytometry**

**Image 1.** Cell surface detection of PAR4 by direct flow cytometry in live intact mouse P815 mast cells: (black line) Cells.(red line) Cells + Rabbit IgG isotype control-APC.(green line) Cells + Anti-PAR4 (F2RL3) (extracellular)-APC Antibody (ABIN7043079, ABIN7045681, ABIN7045682, ABIN7045683 and ABIN7045684), (2.5 µg).




**Flow Cytometry**

**Image 2.** Cell surface detection of PAR4 by direct flow cytometry in live intact human MEG-01 megakaryocytic cells: (black line) Cells.(red line) Cells + Rabbit IgG isotype control-APC.(green line) Cells + Anti-PAR4 (F2RL3) (extracellular)-APC Antibody (ABIN7043079, ABIN7045681, ABIN7045682, ABIN7045683 and ABIN7045684), (2.5 µg).