



Biotinylated Anti-human PEAR1 Antibody

ORDERING INFORMATION

Catalog Number: BAF4527

Lot Number: CALL01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human PEAR1
extracellular domain

Immunogen: CHO cell-derived rhPEAR1
extracellular domain

Ig Type: goat IgG

Application: Western blot

Background

PEAR1 (platelet endothelial aggregation receptor 1; also MEGF12) is a 150 kDa member of the MEGF family of proteins. It is expressed principally on platelets and endothelium, and undergoes phosphorylation in response to platelet activation and adhesion. Mature human PEAR1 is a type I transmembrane protein that is 1017 amino acids (aa) in length. It contains a 735 aa extracellular region (aa 21 - 755) and a Pro-rich 261 aa cytoplasmic domain. The extracellular region shows one EMI segment (aa 25 - 103) followed by nine EGF-like repeats (aa 104 - 692). There is one potential alternate start site at Met376. Over aa 21 - 754, human PEAR1 shares 85% and 87% aa identity with mouse and canine PEAR1, respectively.

Preparation

Produced in goats immunized with purified, CHO cell-derived, recombinant human PEAR1 extracellular domain (rhPEAR1; aa 21 - 754; Accession # Q5VY43). Human PEAR1 specific IgG was purified by human PEAR1 affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human PEAR1 Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human PEAR1. The detection limit for rhPEAR1 is approximately 1 ng/lane and 10 ng/lane under non-reducing and reducing conditions, respectively.

Optimal dilutions should be determined by each laboratory for each application.