



Biotinylated Anti-human CLEC14A Antibody

ORDERING INFORMATION

Catalog Number: BAF4968

Lot Number: CBGK01

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 CLEC14A extracellular domain

Immunogen: NS0-derived rhCLEC14A extracellular domain

Ig Type: sheep IgG

Application: Western blot

Background

CLEC14A (C-type lectin domain family 14 member A; also EGFR5) is a 51 kDa (predicted) member of the C-type lectin domain family of proteins. It is a type I transmembrane protein, apparently expressed in brain and about which little is known. Mature human CLEC14A is 469 amino acids in length. It contains a 376 aa extracellular region (aa 22 - 397) and a 72 aa cytoplasmic domain. The extracellular region shows one C-type lectin like domain (aa 32 - 175) and an EGF-like region (aa 245 - 287). Over aa 22 - 397, human CLEC14A shares 66% and 81% aa identity with mouse and canine CLEC14A, respectively.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant human CLEC14A extracellular domain (rhCLEC14A; aa 22 - 397; Accession # Q86773). Human CLEC14A specific IgG was purified by human CLEC14A 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 CLEC14A 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 CLEC14A. The detection limit for rhCLEC14A is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 1% cross-reactivity with rhCLEC1, rhCLEC2, rhCLEC3B and rhCLEC10A.

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