

BP180/NC16a recombinant protein

Recombinant Human BP180/NC16a Protein

CATALOG #
AAA120534

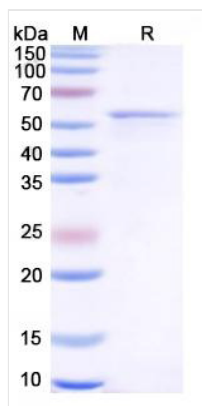
PRODUCT SYNONYMS

BP180/NC16a; Recombinant Human BP180/NC16a Protein; Linear IgA disease antigen 1; COL17A1; 180 kDa bullous pemphigoid antigen 2; LAD-1; Linear IgA bullous disease antigen of 97 kDa; 120 kDa linear IgA dermatosis antigen; 97-LAD; Collagen alpha-1(XVII) chain; Bullous pemphigoid antigen 2; 97 kDa linear IgA bullous dermatosis antigen; LABD97; 97 kDa LAD antigen; BPAG2; BP180; BP180/NC16a recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from PBS pH7.4, 0.02%NLS, 1mM EDTA, 4%trehalose, 1% mannitol.
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Protein Length	Confidential
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for one week. Store at -20 to -80°C for twelve months from the date of receipt.

IMAGES



SDS-PAGE

SDS PAGE for Recombinant Human BP180/NC16a Protein

ADDITIONAL INFORMATION

Related Product Information for BP180/NC16a recombinant protein

Bullous pemphigoid is the result of an attack on the basement membrane of the epidermis by IgG +/- IgE immunoglobulins (antibodies) and activated T lymphocytes (white blood cells). The target is the protein BP180 (also called Type XVII collagen), or less frequently BP230 (a plakine). These proteins are within the NC16A domain of collagen XVII. They are associated with the hemidesmosomes, structures that ensure the epidermal keratinocyte cells stick to the dermis to make a waterproof seal. The binding of the autoantibodies to the proteins and release of cytokines from the T cells lead to complement activation, recruitment of neutrophils (acute inflammatory cells) and the release of proteolytic enzymes. These destroy the hemidesmosomes and cause the formation of subepidermal blisters.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119829187
NCBI GeneID	1308
NCBI Accession #	NP_000485.3
NCBI GenBank Nucleotide #	NM_000494.3
UniProt Accession #	Q9UMD9; Q02802; Q5JV36; Q99018; Q9NQG9; Q9UC14
NCBI Official Full Name	collagen alpha-1(XVII) chain
NCBI Official Synonym Full Names	collagen, type XVII, alpha 1
NCBI Official Symbol	COL17A1
NCBI Official Synonym Symbols	BP180; BPA-2; BPAG2; LAD-1; BA16H23.2
NCBI Protein Information	collagen alpha-1(XVII) chain; collagen alpha-1(XVII) chain; alpha 1 type XVII collagen; type XVII collagen alpha-1; collagen XVII, alpha-1 polypeptide; 180 kDa bullous pemphigoid antigen 2; bullous pemphigoid antigen 2 (180kD); bA16H23.2 (collagen, type X
UniProt Protein Name	Collagen alpha-1(XVII) chain
UniProt Gene Name	COL17A1
UniProt Synonym Gene Names	BP180; BPAG2; LAD-1; 97 kDa LAD antigen; 97-LAD; LABD97
UniProt Entry Name	COHA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.