Human Corneodesmosin Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5725X
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Corneodesmosin in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Corneodesmosin Lys33-Pro529 (Ser153 del) Accession # NP_001255
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Corneodesmosin, also known as CDSN and the S gene product, is a highly polymorphic secreted glycoprotein that plays an important structural role in the skin (1). It is expressed by differentiated keratinocytes in the corneal layer of the skin and is a major component of corneodesmosomes (2-4). It is also expressed in the inner root sheath of hair follicles (5, 6). Corneodesmosome has a high content of glycine, serine, and proline residues that promote its folding into a series of Gly-loop domains (2, 7). Corneodesmosin forms oligomers and associates homophilically to strengthen the adhesion between corneocytes (8, 9). Corneodesmosin-deficient mice exhibit a detachment of the corneal layer of the skin as well as hypotrichosis of the scalp and baldness (6, 10). Corneodesmosin is secreted by keratinocytes as a 52-56 kDa molecule which is then subjected to repeated sequential N- and C-terminal proteolysis (11). Species of 46, 43, 36, and 15 kDa are present in corneocytes (7, 11). Cleavage of the N-terminal Gly-loop diminishes Corneodesmosin's ability to mediate adhesion, and this is a prerequisite for normal desquamation of the skin (8, 9). Reduced proteolysis of Corneodesmosin in psoriasis lesions is associated with the persistence of corneodesmosomes and scale retention (12). Premature truncation of Corneodesmosin is associated with hypotrichosis of the scalp (13).

PRODUCT SPECIFIC NOTICES

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