

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PADI2 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PADI2 Met1-Ala115 Accession # Q9Y2J8
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

PADI2 (Protein-arginine deiminase type 2; also PAD2, PDI2 and PAD-H19) is a 72-76 kDa member of the PAD family of proteins. It is widely expressed, being found in macrophages, astrocytes, select neurons, skeletal muscle and bronchial epithelial cells, and keratinocytes. PADI2 catalyzes the Ca⁺⁺-dependent conversion of guanidino groups (NH₂-C(=NH)-NH₂) to ureido groups (NH₂-C(=O)-NH₂) on peptidylArg, a posttranslational process known as citrullination. Human PADI2 is 665 amino acids (aa) in length. It contains an N-terminal PAD domain (aa 1-114), a middle PAD-M domain (aa 116-274), and a catalytic region (aa 279-665). Over aa 1-115, human PADI2 shares 90% aa sequence identity with mouse PADI2.

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