

Rabbit anti-Human Protein-arginine deiminase type-2 Polyclonal Antibody | anti-PADI2 antibody

Rabbit anti-human Protein-arginine deiminase type-2 polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA229152	Rabbit	Human	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

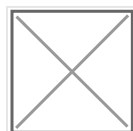
PRODUCT SYNONYMS

Protein-arginine deiminase type-2; Polyclonal Antibody; Rabbit anti-human Protein-arginine deiminase type-2 polyclonal Antibody; PAD-H19; Peptidylarginine deiminase II; Protein-arginine deiminase type II; anti-PADI2 antibody

PRODUCT SPECIFICATIONS

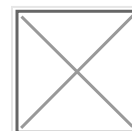
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	665
Applicable Applications for anti-PADI2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant human Protein-arginine deiminase type-2 protein(1-665aa)
Conjugation	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300; Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-48620 / sc-133877
Species	Homo sapiens (Human)
Research Area	Neuroscience
Target Names	PADI2
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of HeLa cells with AAA229152 at 1:100, counter- stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IHC (Immunohistochemistry)

Immunohistochemistry image of AAA229152 diluted at 1:300 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



WB (Western Blot)

Western Blot Positive WB detected in: K562 whole cell lysateAll lanes: PADI2 antibody at 3ug/mlSecondary Goat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 76, 50 kDaObserved band size: 76, 50 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PADI2 antibody	Catalyzes the deimination of arginine residues of proteins. This gene encodes a member of the peptidyl arginine deiminase family of enzymes, which catalyze the post-translational deimination of proteins by converting arginine residues into citrullines in the presence of calcium ions. The family members have distinct substrate specificities and tissue-specific expression patterns. The type II enzyme is the most widely expressed family member. Known substrates for this enzyme include myelin basic protein in the central nervous system and vimentin in skeletal muscle and macrophages. This enzyme is thought to play a role in the onset and progression of neurodegenerative human disorders, including Alzheimer disease and multiple sclerosis, and it has also been implicated in glaucoma pathogenesis. This gene exists in a cluster with four other paralogous genes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	122939159
NCBI GeneID	11240
NCBI Accession #	NP_031391.2
NCBI GenBank Nucleotide #	NM_007365.2
UniProt Accession #	Q9Y2J8; Q96DA7; Q9UPN2
Molecular Weight	49,310 Da
NCBI Official Full Name	protein-arginine deiminase type-2
NCBI Official Synonym Full Names	peptidyl arginine deiminase, type II
NCBI Official Symbol	PADI2
NCBI Official Synonym Symbols	PAD2; PDI2; PAD-H19
NCBI Protein Information	protein-arginine deiminase type-2
UniProt Protein Name	Protein-arginine deiminase type-2
UniProt Gene Name	PADI2
UniProt Synonym Gene Names	KIAA0994; PAD2; PDI2
UniProt Entry Name	PADI2_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.