For Research Use Only

PADI2 Monoclonal antibody

Catalog Number:66386-1-Ig Featured Product 5 Publications

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Basic Information

Catalog Number:
66386-1-Ig

Size:
150ul , Concentration: 1600 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG17612

GenBank Accession Number:
BC009701

GeneID (NCBI):
11240

UNIPROT ID:
Q9Y2J8

Full Name:
peptidyl arginine deiminase, type II

Calculated MW:
665 aa, 75 kDa

Observed MW:
75 kDa

Purification Method:
Protein A purification

CloneNo.:
2D8C12

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:100-1:400
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IF, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat, rabbit, pig

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human skeletal muscle tissue, HeLa cells, MCF-7 cells, pig brain tissue, rat brain tissue, mouse brain tissue, rat skeletal muscle tissue, mouse skeletal muscle tissue

IHC : human breast cancer tissue,

IF-P : human breast cancer tissue,

Background Information

PADI2, also named as KIAA0994, PDI2, PAD-H19 and PAD2(Peptidylarginine deiminase II), belongs to the protein arginine deiminase family. It catalyzes the deimination of arginine residues of proteins. PADI2 may play a regulatory role in the expression of lactation related genes via histone citrullination during diestrus (PMID:20668670). PADI2 has two isoforms with MW 75 kDa and 49 kDa.

Notable Publications

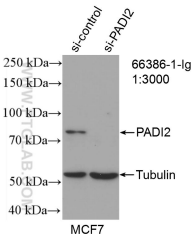
Author	Pubmed ID	Journal	Application
Alerie G de la Fuente	32434922	Mol Cell Proteomics	WB
Hiroyuki Katayama	34112737	J Immunother Cancer	IHC
Hyun-Jung Kim	35218410	Cell Mol Life Sci	WB,IF

Storage

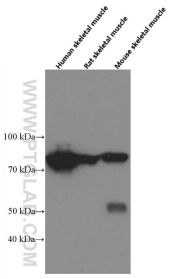
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

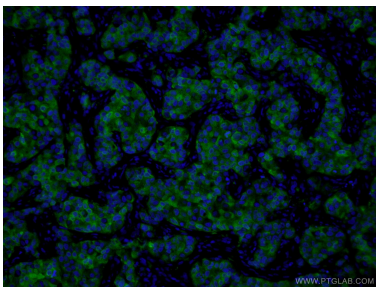
Selected Validation Data



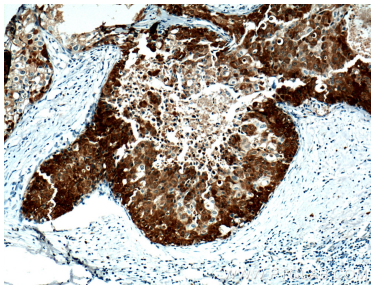
WB result of PADI2 antibody (66386-1-Ig; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PADI2 transfected MCF-7 cells.



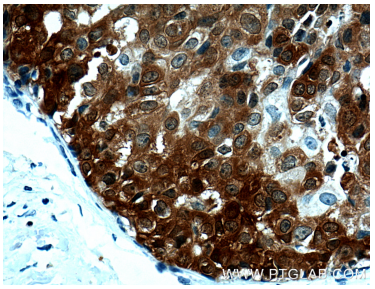
human skeletal muscle tissue, rat skeletal muscle tissue, mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 66386-1-Ig (PADI2 Antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 66386-1-Ig (PADI2 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66386-1-Ig (PADI2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66386-1-Ig (PADI2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).