PADI2 Recombinant monoclonal antibody

Catalog Number:83868-1-RR

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Basic Information

Catalog Number: 83868-1-RR	**GenBank Accession Number:** BC009701	**Purification Method:** Protein A purification
Source: Rabbit	**GeneID (NCBI):** 11240	**CloneNo.:** 240763C5
Isotype: IgG	**UNIPROT ID:** Q9Y2J8	**Recommended Dilutions:** WB: 1:5000-1:50000 IHC: 1:500-1:2000
Immunogen Catalog Number: AG17612	**Full Name:** peptidyl arginine deiminase, type II	
	Calculated MW: 665 aa, 75 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, mouse, rat

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 : MCF-7 cells, HL-60 cells, mouse brain tissue, rat brain tissue

IHC : human ovarian cancer,

Background Information

PADI2, also named 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).
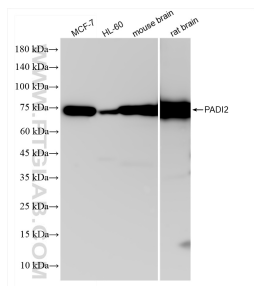
Storage

Storage:
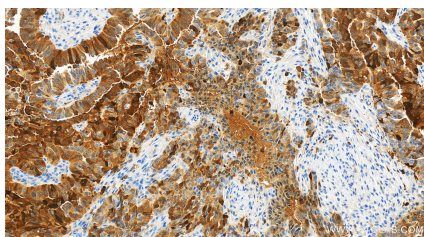Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

Various lysates were subjected to SDS PAGE followed by western blot with 83868-1-RR (PADI2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 83868-1-RR (PADI2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).
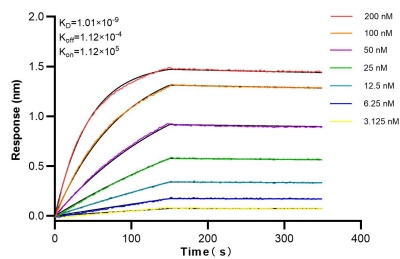
Biolayer interferometry (BLI) kinetic assays of 83868-1-RR against Human PADI2 were performed. The affinity constant is 1.01 nM.