Anti-PAD2 Monoclonal Antibody (Clone 9F7)

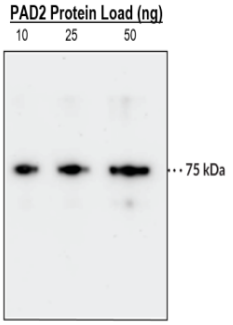
rev 04/21

CATALOG NO.:	**A2312-50 (50 µg)** **A2312-100 (100 µg)**

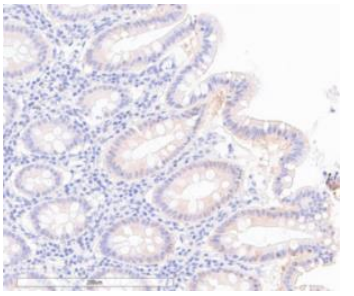
BACKGROUND DESCRIPTION: Protein arginine deiminases (PADs) are a family of guanidine-modifying enzymes that catalyze the post-translational modification of target proteins by converting arginine to citrulline. Excessive citrullination of proteins may result in disease states. PAD2 is the most widely expressed and evolutionarily conserved family member. Known substrates for PAD2 include myelin basic protein and vimentin, and PAD2 is thought to play a role in the onset and progression of neurodegenerative diseases such as Alzheimer's and multiple sclerosis. PAD2 may also play a role in transcriptional regulation as it is capable of citrullinating histone H3.

ALTERNATE NAMES:	Peptidyl Arginine Deiminase 2; PDI2; KIAA0994; PAD-H19; PADI2
ANTIBODY TYPE:	Monoclonal
CLONE:	9F7
HOST/ISOTYPE:	Mouse / IgG1
IMMUNOGEN:	Full length recombinant human PAD2 protein
PURIFICATION:	Protein G purification
MOLECULAR WEIGHT:	75 kDa
FORM:	Liquid
FORMULATION:	In PBS, pH 7.2, 50% glycerol, 0.1% BSA, 0.02% sodium azide
SPECIES REACTIVITY:	Human
STORAGE CONDITIONS:	Aliquot and store at -20 °C. Avoid repeated freeze-thaw cycles
APPLICATIONS:	Western blot & ELISA: 1:1000 dilution; Immunohistochemistry (IHC): 1:200 dilution

This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of recombinant PAD2 protein (at different loads) using PAD2 monoclonal antibody



IHC analysis of human colon tissue using PAD2 monoclonal antibody

RELATED PRODUCTS:

Anti-PAD1 Monoclonal Antibody (Clone 6B4) (Cat. No. A2311)
Anti-PAD2 Polyclonal Antibody (Cat. No. A2322)
Anti-PAD3 Monoclonal Antibody (Clone 4E5) (Cat. No. A2313)
Anti-PAD4 Monoclonal Antibody (Clone 11F9) (Cat. No. A2314)
Anti-PAD6 Monoclonal Antibody (Clone 4B7) (Cat. No. A2315)

FOR RESEARCH USE ONLY! Not to be used on humans.