

# Anti-PAD4 Monoclonal Antibody (Clone 11F9)

rev 04/21

CATALOG NO.: **A2314-50 (50 µg)**  
**A2314-100 (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. PAD4 (also known as PADI5) is expressed in neutrophils and in a variety of tissues. PAD4 is known to citrullinate histones, which initiates chromatin decondensation in neutrophils and the subsequent release of neutrophil extracellular traps (NETs), which leads to a lytic form of cell death known as NETosis. The presence of serum PAD4 autoantibodies has been associated with rheumatoid arthritis.

**ALTERNATE NAMES:** Peptidyl Arginine Deiminase 4; HL-60 PAD; PADI5; PDI4; PAD; PADI-H Protein; PADI4

**ANTIBODY TYPE:** Monoclonal

**CLONE:** 11F9

**HOST/ISOTYPE:** Mouse / IgG1

**IMMUNOGEN:** Full length recombinant PAD4 protein

**PURIFICATION:** Protein G purification

**MOLECULAR WEIGHT:** 74 kDa.

**FORM:** Liquid

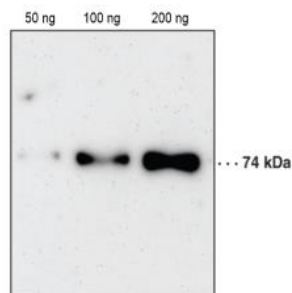
**FORMULATION:** In PBS, pH 7.2, with 50% glycerol and 0.02% sodium azide

**SPECIES REACTIVITY:** Human

**STORAGE CONDITIONS:** Aliquot and store at -20 °C. Avoid repeated freeze-thaw cycles

**APPLICATIONS:** Western Blot & ELISA: 1:500 dilution

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



Western blot analysis of recombinant PAD4 protein (at various protein loads) using PAD4 monoclonal antibody

## RELATED PRODUCTS:

Anti-PAD1 Monoclonal Antibody (Clone 6B4) (Cat. No. A2311)  
 Anti-PAD2 Monoclonal Antibody (Clone 9F7) (Cat. No. A2312)  
 Anti-PAD3 Monoclonal Antibody (Clone 4E5) (Cat. No. A2313)  
 Anti-PAD4 Polyclonal Antibody (Cat. No. A2324)  
 Anti-PAD6 Monoclonal Antibody (Clone 4B7) (Cat. No. A2315)

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