

## Anti-PADI4(Peptidylarginine deiminase IV) Polyclonal Antibody

Cat. #: 60B629

### Description:

The PADI4 (Peptidylarginine deiminase IV) catalyzes the deimination of arginine residues of proteins. It down-regulates histone H3 and H4 arginine methylation, both by preventing arginine methylation by CARM1 and HRMT1L2/PRMT1 and by converting methylarginine to citrulline. The PADI4 is thought to be a rheumatoid arthritis susceptibility locus. It could have an important role in the pathogenesis of rheumatoid arthritis by increasing citrullination of proteins in rheumatoid arthritis synovial tissues, leading, in a cytokine-rich milieu, to a break in tolerance to citrullinated peptides processed and presented in the appropriate HLA context.

### Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human PADI4 (Peptidylarginine deiminase IV)

### References

Asaga,H., et al, J. Leukoc. Biol. 70 (1), 46-51 (2001)  
Cuthbert,G.L., et al, Cell 118 (5), 545-553 (2004)  
Wang,Y., et al, Science 306 (5694), 279-283 (2004)  
Suzuki,A., et al, Nat. Genet. 34 (4), 395-402 (2003)

Clone Number:

Isotype:

Species: Human

Storage and Stability: at -20oC

### Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

### Preparation:

Purified by antigen-specific affinity chromatography.

### Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)