
Product number
#10180

Mutated Anti-Citrullinated Protein Antibody (E4NG-mutant)

Description

This antibody is the mutated version of the [E4NG antibody](#), with identical sequence, methods of production/purification and format to E4NG except two mutations in the paratope (W48M & S51A)¹. This antibody has neglectable or no affinity to citrulline and does not have known cross-reactivity to other antigens¹.

The E4NG-mutant antibody is recommended to be used as a **control for E4NG antibody (#10170)** in assays detecting citrulline-specificity of anti-citrullinated protein antibodies (ACPA) and is **packed with product #10170 only and not sold separately**.

Isotype

Mouse IgG2b, κ

Specificity

May have minimal non-specific binding to CCP2, the cyclic citrullinated peptide(s) of the second generation of the anti-CCP test. The antibody does not react with known citrullinated proteins or peptides. Suitable to be paired with [E4NG antibody \(#10170\)](#) as a negative control for detecting citrullinated antigens.

Concentration

100 $\mu\text{g/ml}$

Size

50 μg / 0.5 ml

100 μg / 1.0 ml

Supplied in

PBS

Storage

Centrifuge briefly prior to opening vial. Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze/thaw cycles.

Recommended dilution

It is recommended the user determines the optimal dilution with E4NG for their application.

For Research Use Only. Not for use in diagnostic procedures.

Not for resale without express authorization.

References

1. He, Y., Ge, C., Moreno-Giró, À. et al. A subset of antibodies targeting citrullinated proteins confers protection from rheumatoid arthritis. *Nat Commun* 14, 691 (2023). <https://doi.org/10.1038/s41467-023-36257-x>