

# Anti-Dityrosine (DT) Monoclonal Antibody

- Code:** MDT-020P
- Content:** 20  $\mu$  g of IgG / vial. Lyophilized powder.
- Clone #:** 1C3
- Immunogen:** Keyhole limpet hemocyanin conjugated with 3-(p-hydroxyphenyl) propionic acid dimer.
- Subclass:** Mouse IgG<sub>2a</sub> $\kappa$ , Protein-A purified.
- Application:** Immunohistochemistry and western blotting.
- Reconstitution:** Reconstitute with 200  $\mu$  L of distilled water.
- Buffer Concentration:** 100  $\mu$  g/mL of IgG in 10mM Phosphate buffered saline (pH7.4).
- Specificity:** This antibody binds to dityrosine, 3-(p-hydroxyphenyl) propionic acid dimer, dityrosine-conjugated BSA, Dityrosine in proteins and peptides.  
Cross reactivity have been checked to following analogues:  
Nitrotyrosine, chlorotyrosine, aminotyrosine, phosphotyrosine, tyrosine, 3-(p-hydroxyphenyl) propionic acid, 3,4-dihydroxyphenylacetic acid (DOPA) and phenylalanine.
- Storage:** Store at less than -20°C.  
After reconstitution, store as frozen aliquots and avoid repeated freeze & thaw.
- Stability:** 5 years at -20°C.
- References:** Kato Y, Wu X, Naito M, Nomura H, Kitamoto N, Osawa T.  
Immunochemical detection of protein dityrosine in atherosclerotic lesion of apo-E-deficient mice using a novel monoclonal antibody.  
Biochem Biophys Res Commun. 275(1), p11-15 (2000).  
  
Japanese patent No. 3687718.

***For research use only, not for diagnostic use.***



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