



# Anti-Dibromo-Tyrosine (DiBrY) Monoclonal Antibody

- Code:** NNS-MBY-020P-EX
- Content:** 20  $\mu$  g of IgG / vial. Lyophilized powder.
- Clone name:** #3A5
- Immunogen:** Brominated keyhole limpet hemocyanin.
- Subclass:** Mouse IgG<sub>1</sub>( $\kappa$ ), Protein-A purified.
- Application:** Immunohistochemistry (Recommended concentration: 10  $\mu$  g/mL IgG) [ref.1] 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:** Specific for di-halogenated tyrosine.  
Recognize dibromotyrosine (DiBrY), N-acetylated dichloro tyrosine (NAcDiClY), diiodo tyrosine (DiIY), N-bromosuccinimide-treated BSA, HOCl-treated BSA and dibromo-tyrosone conjugated BSA.
- Cross reactivity was checked for dityrosine-conjugated BSA, peroxydinitrite-treated BSA, tyrosine (Y), chlorotyrosine(ClY), 3-3'-dityrosine (DiY), 3-aminotyrosine (NH<sub>2</sub>Y), 3-nitrotyrosine (NO<sub>2</sub>Y), phenylalanine (Phe), o-phosphotyrosine, 3,4-dihydroxyphenylacetic acid (DOPA) and 2-hydroxy-4-phenylacetic acid. Bromotyrosine (BrY) is weakly recognized.
- Storage:** Store at less than -20°C.  
After reconstitution, store as frozen aliquots and avoid repeated freeze & thaw.
- Stability:** 3 years at -20°C.
- References:** 1) Y Kato, Y Kawai, H Morinaga, H Kondo, N Dozaki, N Kitamoto and T Osawa.: Immunogenicity of a brominated protein and successive establishment of a monoclonal antibody to dihalogenated tyrosine. Free Rad Biol Med, 38, p24-31 (2005)

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