



Northwest

Life Science Specialties, LLC

Anti 4-hydroxy-2-nonenal (4HNE) Monoclonal Clone HNEJ-2

Catalog Number:	NWA-HNE100
Description:	Murine IgG _{1κ} anti 4-hydroxy-2-nonenal monoclonal antibody (100μg ammonium sulphate purified IgG per Vial.
Specificity:	Specific for 4HNE-Histidine, 4HNE-Lysine and 4HNE Cysteine adduct in all species.
Format:	Lyophilized as 100μg/mL IgG in 100μg/mL IgG in 50mM Tris buffered saline (TBS).
Antigen:	4-Hydroxy-2-nonenal (4HNE) modified keyhole limpet hemocyanin.
Reconstitution:	Reconstitute with 1 mL distilled water to yield 100 μg/mL stock solution.
Suggested Use:	IHC, Western and/or ELISA Immunohistochemistry [ref.1] (Recommended concentration: 25μg/mL IgG) Western blotting [ref.2] (Recommended concentration: 15μg/mL IgG) User should determine optimum titer for each application.
Cross Reactivity:	This antibody has almost negligible reactivity with proteins that were treated with other aldehydes, such as 2-nonenal, 2-hexenal, 1-hexanal, 4-hydroxy-2-hexenal, formaldehyde, or glutaraldehyde. By inhibition test, this antibody shows a much higher affinity for the 4-HNE-histidine adduct than 4-HNE-lysine or 4-HNE-cysteine adduct.
Stability:	Stable for 5 years as supplied (lyophilized powder).
Storage:	Store at -20 °C upon arrival. After reconstitution freeze single use aliquots at -20 °C or lower. Avoid repeated freeze/thaw.
References:	T.Tanaka et al. (1997) Laboratory Investigation 77:2, p145155 S.Toyokuni et al. (1995) FEBS Letters 359, p189191

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