

Product datasheet for **AP00762HR-N**

Malondialdehyde / MDA Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western Blot: 1:1,000 - 1:4,000.
Host:	Goat
Clonality:	Polyclonal
Specificity:	This antibody specifically binds to MDA modified proteins.
Formulation:	Lyophilized from 50mM PBS, 0.1M Sodium Chloride, pH 7.4 containing 10mg/ml BSA containing 0.01% Thimerosal Label: HRP State: Lyophilized purified Ig Label: Horseradish Peroxidase
Reconstitution Method:	Restore with 0.5ml distilled water. Centrifuge if not completely clear after standing for 1-2 hours at room temperature.
Concentration:	lot specific
Purification:	MDA modified protein-Sepharose affinity column and conjugated with HRP
Conjugation:	HRP
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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- Background:** Malondialdehyde (MDA) is a natural product formed in all mammalian cells as a product of lipid peroxidation. MDA is a highly reactive three carbon dialdehyde produced as a byproduct of polyunsaturated fatty acid peroxidation and arachidonic acid metabolism. MDA readily combines with several functional groups on molecules including proteins, lipoproteins, and DNA. It reacts with DNA to form adducts to deoxyguanosine and deoxyadenosine. The major adduct to DNA is a pyrimidopurinone called M1G which appears to be a major endogenous DNA adduct in human beings that may contribute significantly to cancer linked to lifestyle and dietary factors.
- MDA modified proteins may show altered physico chemical behavior and antigenicity. MDA is toxic and has been implicated in aging mutagenesis, carcinogenesis, diabetic nephropathy and radiation damage. Increased expression of MDA has been reported in the brains of Alzheimer's patients. Antibodies to MDA will help to visualize the MDA adducts.
- Synonyms:** 1, 3-Propanedial, 3-Propanedione, Malondialdehyde Malonyldialdehyde, Malonic aldehyde, Malonic dialdehyde, Malonodialdehyde, Propanedial
- Note:** Use of sodium azide as a preservative will substantially inhibit the enzyme activity of horseradish peroxidase.