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Product datasheet for AM26368PU-N

MGO-modified proteins Mouse Monoclonal Antibody [Clone ID: MGO-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MGO-1
Applications:	ELISA, IHC, WB
Recommended Dilution:	Immunoassays. Immunohistochemistry on paraffin sections: The typical starting working dilution is 1:50. Western blot.
Reactivity:	var.
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	MGO-modified KLH
Specificity:	The monoclonal antibody MGO-1 recognizes human MGO modified proteins.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.

View online »

Background:

Methylglyoxal (MGO) is an endogenous product of glucose metabolism. Increased production and accumulation of methylglyoxal (MGO), as well as increased modification of proteins by glycoxidation, are hallmarks of aging and diabetes. MGO was shown to modify proteins and to contribute to the accumulation of damaged proteins that can be toxic to cells. A number of studies have shown that MGO levels are significantly elevated in patients with Type 2 Diabetes and correlates well with fasting plasma glucose and hemoglobin A1c (HbA1c) levels. Moreover, increased formation of the MGO is implicated in renal dysfunction and is known to be involved in the development of DN (diabetic nephropathy).