

DESCRIPTION

Specificity	Detects Carboxymethyl Lysine adducts on proteins in Western blots. In Western blots, no cross-reactivity with carboxyethyl lysine adducts is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 318003
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Carboxymethyl Lysine-modified Keyhole Limpet Hemocyanin (KLH)
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Nε-carboxymethyl lysine (CML) is formed by the non-enzymatic Schiff-base reaction of glucose with proteins, followed by an Amadori rearrangement and oxidation that leaves only a carboxymethyl group attached to the lysine. The levels of CML adducts accumulate over time and have been used as an indicator of both serum glucose levels and oxidative protein damage. Elevated serum CML-modified proteins have been associated with diabetes and may contribute to diabetic retinopathy, nephropathy and angiopathy.

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