COSMO BIO CO., LTD.
Inspiration for Life Science

MONOCLONAL ANTIBODY

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Catalog No. JWU-M02

Anti N$^{\varepsilon}$-(carboxyethyl) lysine (CEL)

BACKGROUND

N$^{\varepsilon}$-(carboxyethyl) lysine (CEL) is generated from protein modification by methylglyoxal (MG), which is enzymatically derived from the Embden-Meyerhof and polyol pathways, through the degradation of glyceraldehyde-3-phosphate (G3P) (Phillips and Thornalley, 1993). Mclellan et al. (McLellan et al., 1994) demonstrated that plasma MG concentrations in insulin-dependent diabetic patients were 7-times higher than those of healthy individuals.

Product type	Primary antibodies
Host	Mouse
Source	Purified from ascite
Form	Liquid with 0.1% proclin
Volume	100 μl
Concentration	0.2 mg/ml
Specificity	CEL
Antigen	CEL-BSA
Clone	CEL-SP
Isotype	IgG1

Application notes

Recommended use

WB, IHC, ELISA

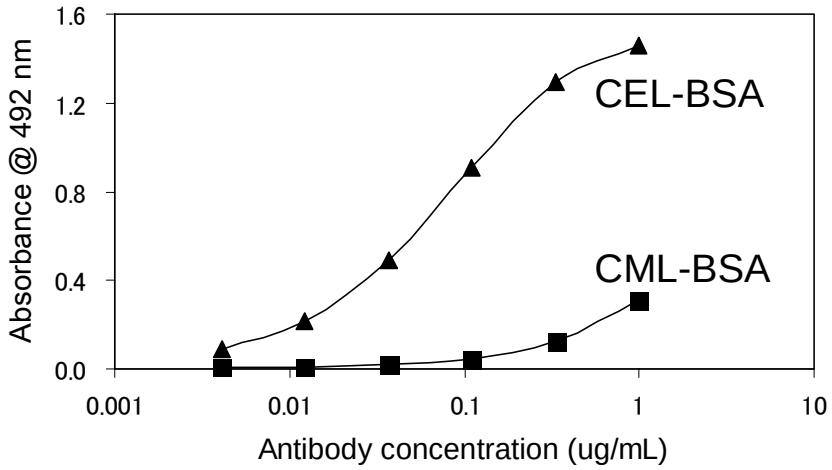
Recommended dilutions

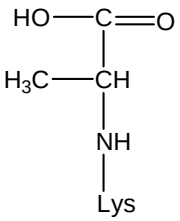
Western blotting, 1/200 to 1/400

Immunohistochemistry, 1/100 to 1/200

ELISA, 1/200 to 1/400

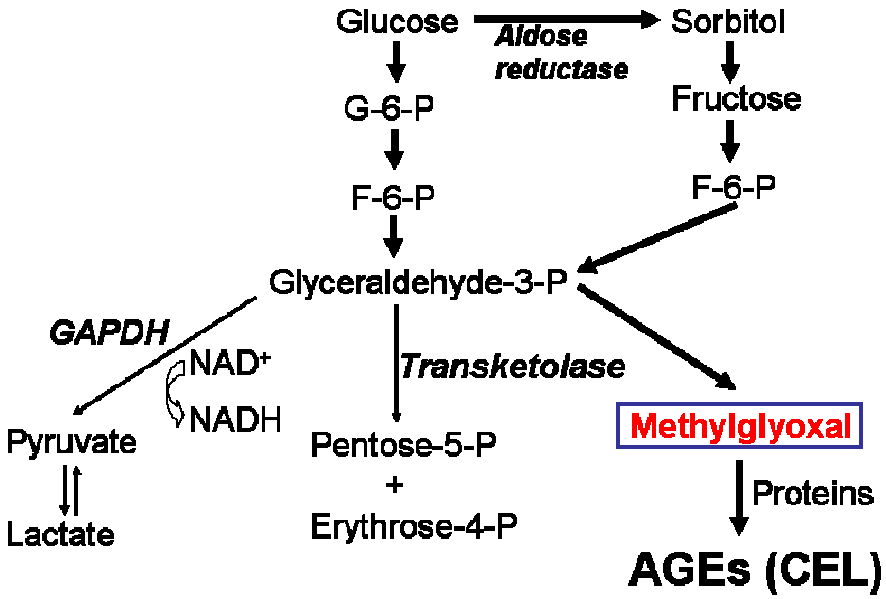
Optimal dilutions/concentrations should be determined by the end user.





CEL

CEL production pathway



Storage

Store below -20°C (below -70°C for prolonged storage).
Aliquot to avoid cycles of freeze/thaw.

References

1) Nagai R., Fujiwara Y., Mera K., Yamagata K., Sakashita N., Takeya M. Immunochemical detection of N^{ε}-(carboxyethyl)lysine using a specific antibody. J. Immunol. Methods 332, 112-120 (2008)

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