Reaction of protein amino groups with glucose leads, through the early products such as a Schiff base and Amadori rearrangement products, to the formation of advanced glycation end products (AGEs). Recent immunological studies using anti-AGEs antibody (6D12) demonstrated the presence of AGEs-modified proteins in several human tissues: (A) human lens (nondiabetic and noncataractous), (B) renal proximal tubules in patients with diabetic nephropathy and chronic renal failure, (C) diabetic retina, (D) peripheral nerves of diabetic neuropathy, (E) atherosclerotic lesions of arterial walls, (F) ß2-microglobulin forming amyloid fibrils in patients with hemodialysis-related amyloidosis, (G) senile plaques of patients with Alzheimer’s disease, (H) the peritoneum of CAPD patients, (I) skin elastin in actinic elastosis, and (J) ceroid/lipofuscin deposits. These results suggest a potential role of AGEs-modification in normal aging as well as age-enhanced disease processes. This antibody named as 6D12 has been used to demonstrate AGEs-modified proteins in these human tissues, indicating potential usefulness of this antibody for histochemical identification and biochemical quantification of AGEs-modified proteins.

\[ N^\delta-(\text{carboxymethyl})\text{lysine (CML)} \]

\[ \text{CML} \]

\( \text{Code No.KH011-01} \)

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Advanced Glycation End Products (AGEs)

Anti CML Monoclonal Antibody (Clone No. CMS-10)

Biotin conjugated

\[ \text{Buffer} \]

Mouse monoclonal antibody, Biotin conjugated 0.25 mg/mL

\[ \text{Clone No.} \]

CMS-10

\[ \text{Subclass} \]

IgG1

\[ \text{Purification method} \]

The splenic lymphocytes from BALB/c mouse, immunized with CML-KLH were fused to myeloma P3U1 cells. The cell line (CMS-10) with positive reaction was grown in ascitic fluid of BALB/c mouse, from which the antibody was purified by Protein G affinity chromatography and conjugated.

\[ \text{Working dilution for immunohistochemistry: 5-10} \, \mu\text{g/mL; for ELISA: 0.1-1.0} \, \mu\text{g/mL} \]
Advanced Glycation End Products (AGES)

Anti CML Monoclonal Antibody (Clone No. CMS-10)
Biotin conjugated

【References】

* These references are the background of CML, and are not this antibody examples.

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