Primary Source: Mouse

Type: Monoclonal

Immunogen: AGEs-BSA

Raised in: Mouse

Myeloma: P3U1

Clone number: 6D12

Isotype: IgG1

Source: Ascites

Purification notes: ProteinG

Cross Reactivity: every animal species

Concentration: 0.1 mg/mL

Contents (Volume): 20 μg (200 μL/vial)

Label: peroxidase conjugated

Buffer: PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]

Storage: Store below 20 °C. Once thawed, store at 4 °C. Repeated freeze-thaw cycles should be avoided.

Note: Reaction of protein amino groups with glucose molecules, through the early products such as a Schiff base and Amadori rearrangement products, to the formation of advanced glycation end products (AGE). Recent immunological studies using anti-AGEs antibody (6D12) demonstrated the presence of AGE-modified proteins in several human tissues: (i) human lens (non-diabetic and noncataractous), (ii) renal proximal tubules in patients with diabetic nephropathy and chronic renal failure, (iii) diabetic retina, (iv) peripheral nerves of diabetic neuropathy, (v) atherosclerotic lesions of arterial walls, (vi) β2-microglobulin forming amyloid fibrils in patients with hemodialysis-related amyloidosis, (vii) senile plaques of patients with Alzheimer’s disease, (viii) the peritoneum of CAPD patients, (ix) skin elastin in actinic elastosis, and (x) ceroid/lipofuscin deposits. These results suggest a potential role of AGE-modification in normal aging as well as age-enhanced disease processes. This antibody named as 6D12 has been used to demonstrate AGE-modified proteins in these human tissues, indicating potential usefulness of this antibody for histochemical identification and biochemical quantification of AGE-modified proteins.

Reference
5. Hernebring M. et al., Immunohistochemical staining of retinal capillary basement membrane in experimental diabetes, using anti-AGEs antibody 6D12
8. Ikeda K. et al., Immunohistochemical staining of renal proximal tubules and glomeruli in patients with diabetic nephropathy, using anti-AGEs antibody 6D12
10. Ikeda K. et al., Immunohistochemical staining of renal proximal tubules and glomeruli in patients with diabetic nephropathy, using anti-AGEs antibody 6D12

WARNING AND PRECAUTION

1. Not for diagnostic use. The safety and efficacy of product in diagnostic or other clinical care has not been established.
2. Harmful by inhalation, contact with skin and if swallowed. Do not breathe dust. Avoid contact with skin and eyes.
3. If contact with skin and eyes, wash with large volume of water. If inhaled remove to fresh air. If swallowed wash with water.
4. Wash hands thoroughly after handling the product.
5. Do not use the product if container is broken or some contamination is detected.
6. When preserving the product, close the container, ensure it does not fall and so on.
7. Dispose of the container and excess reagents in accordance with federal, state and local government regulations.
8. Do not use the container and accessories of the product for other purposes.

This statement is issued as a reminder to prevent misuse of the product.

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Dispose of the container and expired reagents in accordance with federal, state and local government regulations.

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