

U-Blot[®] Pan-Carboxyethyllysine Rabbit mAb (WT9046R)

User Manual

General Information

Product name	U-Blot [®] Pan-Carboxyethyllysine Rabbit mAb
Product No.	WT9046R
Clonality	Recombinant monoclonal
Clone Number	W-R21
Alternative name	Kce

Key Features

Target	Carboxyethyllysine
Reactivity	Human, Mouse, Rat
Applications	WB
MW(Calculated)	Multiple
MW(Observed)	Multiple
Host Species	Rabbit
Isotype	IgG
Conjugate	Unconjugated
Modification	Lysine Carboxyethylation
Modification Site	Lys (K)
Purification	Protein A
Immunogen	Polypeptide

Storage Information

Storage	Store at -20°C. Avoid repeated freeze-thaw cycles
Stability	Stable for 12 months from date of receipt / reconstitution
Formulation	PBS, Glycerol, BSA

Product Usage Information

Applications	Dilution	Recommended Species
WB	1:500-1:1000	All

Target Information

Carboxyethyl lysine (Kce) is an important member of Advanced Glycation End Products (AGEs), which is a non-enzymatic post-translational modification product of protein lysine residues. It is mainly formed by the non-enzymatic glycooxidation reaction between methylglyoxal (MGO), a by-product of cellular metabolism, and the ϵ -amino group of lysine side chains, and can also be induced by the autoxidation and cleavage of monosaccharides such as glucose. Kce modification can change the structure and function of proteins, activate downstream signals such as inflammation and oxidative stress by binding to RAGE receptors, and participate in the pathological processes related to diabetes, obesity, atherosclerosis, neurodegenerative diseases and aging, serving as an important molecular marker of metabolic stress and long-term oxidative damage.

Background

Cellular Localization

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