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Datasheet for ABIN1715133

anti-Glucose Oxidase antibody

Overview

Quantity:	100 µL
Target:	Glucose Oxidase (GOD)
Reactivity:	Others
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glucose Oxidase antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from Penicillium amagasakiense Glucose Oxidase
Isotype:	IgG
Cross-Reactivity (Details):	Penicillium amagasakiense
Purification:	Purified by Protein A.

Target Details

Target:	Glucose Oxidase (GOD)
Alternative Name:	Glucose Oxidase (GOD Products)
Background:	Synonyms: Beta D Glucose Oxygen 1 Oxido Reductase, Glucose oxidase Precursor, Glucose

Target Details

Oxyhydrase, GOD, GOX_PENAG.

Background: Glucose Oxidase is a dimeric enzyme that binds to α -D-glucose and aids in its oxidation into D-glucono-1,5-lactone which then hydrolyzes to gluconic acid. Flavin adenine dinucleotide (FAD) is a cofactor to Glucose Oxidase that acts as the initial electron acceptor and is required for this oxidation to occur. Glucose Oxidase is a natural preservative found in honey, where it reduces atmospheric oxygen into hydrogen peroxide which acts as an antibacterial barrier. Glucose Oxidase is also commonly used in biosensors in which it conveys levels of glucose by keeping track of the number of electrons passed through the enzyme. In this application, Glucose Oxidase is connected to an electrode and the resulting charge is measured.

Application Details

Application Notes: WB 1:100-1000
IHC-P 1:100-500
IF(IHC-P) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 $\mu\text{g}/\mu\text{L}$

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months