

Glucose Oxidase Antibody FITC Conjugated

Catalog No: #C02559F

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Description

Product Name	Glucose Oxidase Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	ICC IF
Species Reactivity	Penicillium amagasakiense
Crossing Reactivity	Penicillium amagasakiense
Immunogen Description	KLH conjugated synthetic peptide derived from Penicillium amagasakiense Glucose Oxidase
Conjugates	FITC
Target Name	Glucose Oxidase
Other Names	Beta D Glucose Oxygen 1 Oxido Reductase; Glucose oxidase Precursor; Glucose Oxyhydrase; GOD; GOX_PENAG.
Excitation Emission	494nm 518nm
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

ICC=1:50-200 IF=1:50-200

Background

Glucose Oxidase is a dimeric enzyme that binds to β -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.

Note: This product is for in vitro research use only