**Limited Uses** 

## Hexokinase I (C35C4) Rabbit mAb (Alexa Fluor® 488 Conjugate)



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-IC, FC-FP	Reactivity: H M	<b>Sensitivity:</b> Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P19367	Entrez-Gene Id: 3098
Product Usage Information		Application Immunofluorescence (In	nmunocytochemistry)		<b>Dilution</b> 1:50 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Hexokinase I (C35C4) Rabbit mAb (Alexa Fluor $^{\otimes}$ 488 Conjugate) detects endogenous levels of total hexokinase I protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human hexokinase I.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Hexokinase I (C35C4) Rabbit mAb #2024.			
Background  Hexokinase catalyzes the conversion of glucose to glucose-6-phosphate, the first step in glyco Four distinct mammalian hexokinase isoforms, designated as hexokinase I, II, III, and IV (gluco have been identified. Hexokinases I, II, and III are associated with the outer mitochondrial me and are critical for maintaining an elevated rate of aerobic glycolysis in cancer cells (Warburg I in order to compensate for the increased energy demands associated with rapid cell growth a proliferation (2,3).				ase I, II, III, and IV (glucokinase), outer mitochondrial membrane n cancer cells (Warburg Effect) (1)	
Background References		1. WARBURG, O. (1956) <i>Science</i> 123, 309-14. 2. Semenza, G.L. (2000) <i>Crit Rev Biochem Mol Biol</i> 35, 71-103. 3. Smith, T.A. (2000) <i>Br J Biomed Sci</i> 57, 170-8.			
Species Reactiv	ity	Species reactivity is dete	rmined by testing in at le	ast one approved app	plication (e.g., western blot).
Applications Key		IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key		H: Human M: Mouse			
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