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Calbindin (D114Q) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate)

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

Applications: IF-F	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P05937	Entrez-Gene Id: 793
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Product Usage Information	Application Immunofluorescence (Frozen)	Dilution 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	Calbindin (D114Q) XP [®] Rabbit mAb (Alexa Fluor [®] 647 Conjugate) recognizes endogenous levels of total calbindin protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human calbindin protein.	
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct immunofluorescent analysis in rat cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Calbindin (D114Q) XP [®] Rabbit mAb #13176.	
Background	Calcium-binding proteins of different subfamilies regulate the second messenger calcium. Calbindin, calmodulin, S-100, parvalbumin, and troponin C are members of the low molecular weight calcium-binding protein family (1). Calbindin is expressed in discrete neuronal populations within the CNS and is thought to act as an intracellular calcium buffering protein. Most Purkinje cells express calbindin, which is expressed when neurons start to migrate and differentiate. In contrast, other calcium buffering proteins, such as parvalbumin, are expressed later during development and in parallel with increasing neuronal activity (2).	
Background References	<ol style="list-style-type: none"> 1. Kawasaki, H. et al. (1998) <i>Biometals</i> 11, 277-95. 2. Bastianelli, E. (2003) <i>Cerebellum</i> 2, 242-62. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	IF-F: Immunofluorescence (Frozen)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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