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His-Tag (D3I1O) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
IF-IC, FC-FP	All	Transfected Only	Rabbit IgG

Product Usage Information	Application	Dilution
	Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	1:50 - 1:200 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	His-Tag (D3I1O) XP [®] Rabbit mAb (Alexa Fluor [®] 647 Conjugate) recognizes recombinant proteins containing the 6xHis epitope tag. The antibody recognizes the 6xHis-tag fused to either the amino or carboxy terminus of targeted proteins in transfected cells.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues of the 6xHis epitope tag.	
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometry analysis in transfected cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated His-Tag (D3I1O) XP [®] Rabbit mAb #12698.	
Background	<p>Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation, and immunostaining techniques. Because of their small size, they are unlikely to affect the tagged protein's biochemical properties.</p> <p>A variety of plasmids contain DNA that encodes an amino-terminal tag consisting of six histidine (6xHis) residues followed by an extended multiple cloning site. The 6xHis tag on the expressed recombinant proteins allows for efficient coupling to Ni²⁺ affinity resins and purification by single step chromatography (1).</p> <p>As is the case with other protein tag systems (2), this polyhistidine tag can often be cleaved at sites recognized by proteases such as thrombin and enterokinases to isolate the protein of interest (1).</p>	
Background References	<ol style="list-style-type: none"> 1. Kroll, D.J. et al. (1993) <i>DNA Cell Biol</i> 12, 441-53. 2. di Guan, C. et al. (1988) <i>Gene</i> 67, 21-30. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	All: All Species Expected
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