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#14044**T7-Tag (D9E1X) XP[®] Rabbit mAb (HRP Conjugate)**

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W	All	Transfected Only	Rabbit IgG
Product Usage Information	Application	Dilution	
	Western Blotting	1:1000	
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.		
Specificity/Sensitivity	T7-Tag (D9E1X) XP [®] Rabbit mAb (HRP Conjugate) recognizes transfected levels of recombinant protein containing the T7 epitope tag.		
Source / Purification Description	Monoclonal antibody is produced by immunizing animals with a synthetic T7-tag peptide. This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated T7-Tag (D9E1X) XP [®] Rabbit mAb #13246.		
Background	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. The T7-tag is an epitope tag composed of an 11-residue peptide encoded from the leader sequence of the T7 bacteriophage gene 10. The T7-tag has been used extensively as a general epitope tag in many expression vectors including the pET system that is based on T7 RNA polymerase expression systems (1).		
Background References	1. Studier, F.W. and Moffatt, B.A. (1986) <i>J Mol Biol</i> 189, 113-30.		

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	All: All Species Expected
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