PAF15 (D8E2Y) XP <sup>®</sup> Rabbit mAb		Cell Signaling	
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#	3 Trask Lane   Danvers   M	assachusetts   01923   USA	
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Applications: WB, IHC-P	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 15	Source/Isotype: Rabbit IgG	UniProt ID: #Q15004	Entrez-Gene Id: 9768	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
	li	Immunohistochemistry (Paraffin) 1:150					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sens	itivity PA	PAF15 (D8E2Y) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total PAF15 protein.					
Source / Purificat		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human PAF15 protein.					
Background	as re by tra ar	Proliferating cell nuclear antigen (PCNA) is a member of the DNA sliding clamp family of proteins that assist in DNA replication (1). PCNA associated factor (PAF15) interacts with PCNA to recruit DNA replicative polymerase. In response to DNA damage, PCNA recruits a low fidelity DNA polymerase to allow bypass of lesions that would otherwise stall DNA replication. This form of DNA damage tolerance is called translesion synthesis (TLS), and is regulated in part by PAF15 (2,3). Ubiquitination of PAF15 at lysines 15 and 24 regulates its interactions with PCNA and DNA polymerase (3). PAF15 is overexpressed in human cancers, and research studies show a correlation between PAF15 expression and poor prognosis (3,4).					
Background Refe	2. 3.	Kelman, Z. and O'Do Chen, J. et al. (2011) Xie, C. et al. (2014) <i>I</i> Yan, R. et al. (2016)	Cell Biochem Bi nt J Biochem Cel	l Biol 50, 127-31.	613-20.		
Species Reactivit	<b>y</b> Sp	ecies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buf		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	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)					
Cross-Reactivity	X:	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>					
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