32

Poly/Mono-ADP Ribose (E6F6A) Rabbit



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Applications: W, IF-IC	Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	
Product Usage Information		Application Western Blotting Immunofluorescence (Imn	nunocytochemistry)	Dilution 1:1000 1:12000 - 1:48000
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.		
Specificity/Sensitivity		Poly/Mono-ADP Ribose (E6F6A) RmAb recognizes endogenous levels of ADP ribosylated proteins and does not cross-react with other post translational modifications.		
Source / Purification		Monoclonal antibody is produced by immunizing animals with KLH modified on lysines with ADP ribose.		
Background		of several acceptor residue termini as well as on DNA a ribose from β-NAD ⁺ and re monoPARPs) comprise the sirtuins and many of the P/ residue (MARylation). The p human PARP1, 2, 5a and 51 of up to ~200 ADPR units (2 nonconsecutive catalytic tr Cholera toxin are arginine- polymerase activity (3,4). A ribose unit by poly-ADP-rib removed from the target re ADP-ribosylation is involve chromatin decondensation the most well-known funct proteins that contain PAR-b complementing protein 1 (many of the PARPs themse PAR-binding zinc-finger (PE tightly regulated. PARP def hyper PARylation can lead repair has inspired great in breast, prostate and small ATM. Stat1, PERK, p53, G-aa modulated by ADP-ribosyla the case of P2X7, cause a c	translational modification that has been des is (lysine, arginine, glutamate, aspartate, cys and tRNA (1). ADP-ribosyl transferases (ADPI lease nicotinamide in the process. Mono-AD vast majority of the ADPRTs. These monoen ARP (ARTD) and ART proteins, transfer a sing poly-ADP-ribose polymerases (polyPARPs) or b, are the most widely studied and can polyr 2). Specificity is determined primarily, but no iad motif, with some exceptions. Those containin DP-ribosylation is reversible and can be deg ose glycohydrolase (PARG) or ADP-ribosylhy esidue by ARH1, TARG1, MacroD1 or MacroD din a variety of cellular processes, including to cell stress response, retroviral silencing, RI ion of ADP-ribose chains is to serve as a sca binding modules to sites of DNA damage (6) XRCC1), histone macroH2A1, RNF146 (Iduna Ives, among others, contain PAR-binding me 22), or macrodomains (7). PARylation has a c iciciency can leave a cell vulnerable to DNA da to parthanatos, a unique form of cell death terest in developing candidate drug inhibito cell lung cancers with mutations in DNA rep ctin and Ras are just a few examples of prote ation (6,7). Modification by ADP-ribose can b onformational change that in the presence racellular NAD ⁺ leading to apoptosis (9).	steine, serine) and protein amino RTs) catalyze the transfer of ADP- P-ribosyl transferases (MARTs, or izymes, which include the gle ADP-ribose unit to the target polyenzymes, which include merize linear or branched chains of exclusively, by a saining the R-S-E motif like g the H-Y-E triad tend to exhibit raded down to a single ADP- drolase 3 (ARH3) or completely 02 (5). mitotic spindle formation, NA biology, and transcription, but ffold for recruiting DNA repair . X-ray repair cross- an E3 ubiquitin ligase, and otifs (PBMs) or domains: WWE, entral role in cell survival, and is amage-induced apoptosis, while (8). The role of PARylation in DNA pors for PARP, in particular to treat air genes like BRCA1/2, CHK2 or eins that are functionally lock protein interactions or, in
Background Refe	rences	6. Gupte, R. et al. (2017) <i>Ge</i> 7. Wei, H. and Yu, X. (2016)	<i>Biol</i> 205, 613-9. <i>ino Acids</i> 41, 257-69. <i>Commun</i> 5, 4426. K. (2015) <i>Proteomics</i> 15, 203-17. <i>enes Dev</i> 31, 101-126. <i>Genomics Proteomics Bioinformatics</i> 14, 13 <i>ront Biosci (Landmark Ed)</i> 14, 1116-28.	1-139.

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 IF-IC: Immunofluorescence (Immunocytochemistry)		
Cross-Reactivity Key	All: All Species Expected		
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