

# Tankyrase Recombinant F(ab')<sub>2</sub>-Mouse Monoclonal Antibody, Biotin

Catalog Number730096

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human
Class	Recombinant Monoclonal	Tested Applications	Dilution *
Type	Antibody	Immunoprecipitation (IP)	0.5 mg/mL
Immunogen	1106-1325 of 1327 of TNKS1 Protein.	Published Applications	
Conjugate	Biotin	Immunoprecipitation (IP)	See 1 publications below
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	0.5 mg/mL		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 1 month. For long term storage store at -20°C		

## Product specific information

Recombinant antibodies are produced using specific genes that code for the desired antibodies. These genes are cloned into an expression vector and expressed in vitro. The advantages of recombinant antibodies include: better specificity, animal origin-free formulation, and more lot-to-lot consistency.

## Background/Target Information

Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking (PubMed:10988299, PubMed:11739745, PubMed:16076287, PubMed:19759537, PubMed:21478859, PubMed:22864114, PubMed:23622245, PubMed:25043379). Acts as an activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation (PARsylation) of AXIN1 and AXIN2, 2 key components of the beta-catenin destruction complex: poly-ADP-ribosylated target proteins are recognized by RNF146, which mediates their ubiquitination and subsequent degradation (PubMed:19759537, PubMed:21478859). Also mediates PARsylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination (PubMed:21478859). Mediates PARsylation of TERF1, thereby contributing to the regulation of telomere length (PubMed:11739745). Involved in centrosome maturation during prometaphase by mediating PARsylation of HEPACAM2/MIK1 (PubMed:22864114). May also regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles (PubMed:10988299). May be involved in spindle pole assembly through PARsylation of NUMA1 (PubMed:16076287). Stimulates 26S proteasome activity (PubMed:23622245). [UniProt]

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PubMed References For Tankyrase Recombinant F(ab')2-Mouse Monoclonal Antibody, Biotin

1 Immunoprecipitation References

Species / Dilution	Summary
Human / 2 µg	730096 was used in immunoprecipitation to describe a mass spectrometry-based method for scoring immunoprecipitation antibody quality
	Nature methods ( 2015; 12: 725)
	<b>"Assessment of a method to characterize antibody selectivity and specificity for use in immunoprecipitation."</b> Author(s):Marcon E,Jain H,Bhattacharya A,Guo H,Phanse S,Pu S,Byram G,Collins BC,Dowdell E,Fenner M,Guo X,Hutchinson A,Kennedy JJ,Krastins B,Larsen B,Lin ZY,Lopez MF,Loppnau P,Miersch S,Nguyen T,Olsen JB,Paduch M,Ravichandran M,Seitova A,Vadali G,Vogelsang MS,Whiteaker JR,Zhong G,Zhong N,Zhao L,Aebersold R,Arrowsmith CH,Emili A,Frappier L,Gingras AC,Gstaiger M,Paulovich AG,Koide S,Kossiakoff AA,Sidhu SS,Wodak SJ,Gräslund S,Greenblatt JF,Edwards AM PubMed Article URL: <a href="http://dx.doi.org/10.1038/nmeth.3472">http://dx.doi.org/10.1038/nmeth.3472</a>

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