## For Research Use Only

## pan-RAS Recombinant antibody, PBS Only (Detector)

Catalog Number:81615-1-PBS

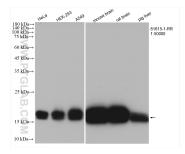


Basic Information	Catalog Number: 81615-1-PBS	GenBank Accession Number: BC013572	Purification Method: Protein A purification
	Size:	GeneID (NCBI):	CloneNo.:
	100ug , Concentration: 1mg/ml by	3845	2122
	Nanodrop;	UNIPROT ID:	
	Source:	P01116	
	Rabbit	Full Name:	
	Isotype:	v-Ki-ras2 Kirsten rat sarcoma viral	
	IgG	oncogene homolog	
	Immunogen Catalog Number:	Calculated MW:	
	AG2700	188 aa, 21 kDa Observed MW:	
		Applications	Tested Applications:
Applications	WB, IHC, IF/ICC, Cytometric bead array, Indirect ELISA		
	Species Specificity:		
	human, mouse, rat, pig		
Product Information	81615-1-PBS targets pan-RAS as part of a matched antibody pair:		
	MP80009-1: 60309-1-PBS capture and 81615-1-PBS detection (validated in Cytometric bead array)		
	Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.		
		s cytometry, and multiplex imaging	pplications including: ELISAs, multiplex applications.Antibody use should be
Background Information	The 21 kDa guanine-nucleotide binding proteins (K-Ras, H-Ras, and N-Ras) belong to the Ras oncogene family, whose members are related to the transforming genes of mammalian sarcoma retroviruses. K-Ras, H-Ras, and N-Ras have similar structure and sequences. These proteins can bind GTP and GDP, and they have intrinsic GTPase activity. The ras genes are ubiquitously expressed although mRNA analysis suggests different level expression in tissue. Mutations in each ras gene frequently were found in different tumors, suggesting their involvement in the development of specific neoplasia. This antibody can recognize K-Ras, H-Ras, and N-Ras.		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

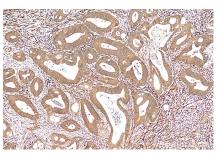
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

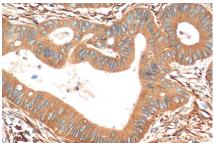
## Selected Validation Data



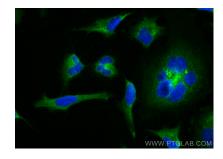
Various lysates were subjected to SDS PAGE followed by western blot with 81615-1-RR (pan-RAS antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81615-1-PBS in a different storage buffer formulation.



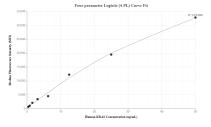
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 81615-1-RR (pan-RAS antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81615-1-PBS in a different storage buffer formulation.



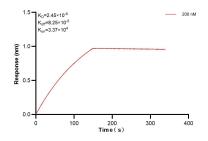
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 81615-1-RR (pan-RAS antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81615-1-PBS in a different storage buffer formulation.



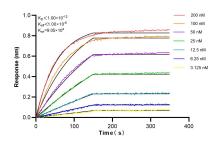
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using pan-RAS antibody (81615-1-RR, Clone: 2122) at dilution of 1:1000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 81615-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP80009-1, KRAS Hybrid Matched Antibody Pair, PBS Only. Capture antibody: 60309-1-PBS. Detection antibody: 81615-1-PBS. Standard: Ag2700. Range: 0.391-50 ng/mL



Biolayer interferometry (BLL) kinetic assay of 81615-1-PBS against Human pan-RAS was performed. The affinity constant is 2.45 nM.



Biolayer interferometry (BLL) kinetic assays of 81615-1-RR against Human pan-RAS were performed. The affinity constant is below 1 pM.