

## Anti-Pygopus 2 Rabbit pAb



WL0123a

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-Pygopus 2 Rabbit pAb		
<b>Source</b>	Rabbit		
<b>Species reactivity</b>	Human, Rat		
<b>Tested applications</b>	Western blot	1:500-1:1000	
	Immunohistochemistry	1:50 - 1:500	
<b>Cellular localization</b>	Predicted band size: 42 kDa  Observed band size: 50-60 kDa		
<b>Pack size</b>	50/100/200/500/1000μl		
<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>		
<b>Storage buffer</b>	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μg/ml  BSA, 50% glycerol and less than 0.02% sodium azide		

## General Information

<b>Background</b>	Pygopus 2, also known as PYGO2, is a 406 amino acid protein that is the human homolog of the Drosophila pygopus protein. Localized to the nucleus, Pygopus 2 contains one PHD finger that interacts with the homology domain of the Wnt signaling protein Bcl-9. This interaction joins Pygopus 2 with the $\beta$ -catenin/TCF complex (a crucial complex in Wnt signaling), thereby allowing $\beta$ -catenin to transcriptionally activate Wnt target genes. Association of Pygopus 2 with proteins involved in the Wnt signaling pathway is thought to regulate proper signal transduction, as absence of the Pygopus 2/ $\beta$ -catenin interaction may play a role in development of B-cell malignancies.
<b>Immunogen</b>	Polyclonal antibody is produced by immunizing animals with a synthetic peptide of Pygopus 2.
<b>Purification</b>	Polyclonal antibody was purified by immunogen affinity chromatography.

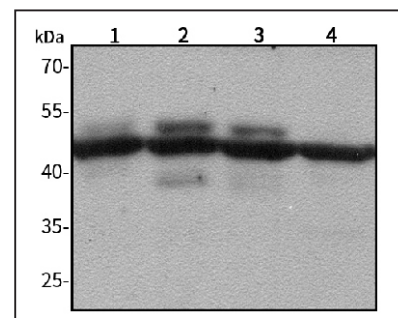
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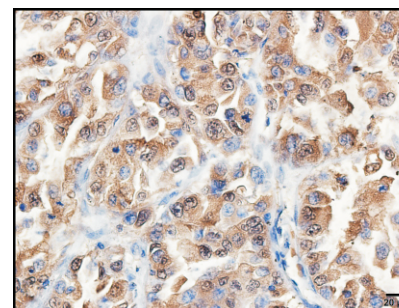
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## Product Images



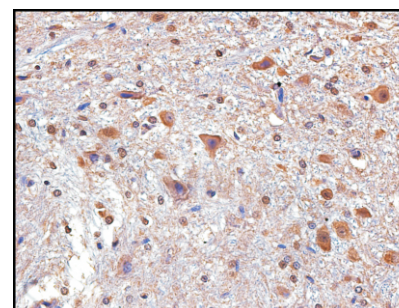
## Western blot-Anti-Pygopus 2 pAb

Lane 1: Human BGC-823 cell lysate 20μg  
 Lane 2: Human MGC-803 cell lysate 20μg  
 Lane 3: Human SGC-7901 cell lysate 20μg  
 Lane 4: Human Caco2 cell lysate 20μg  
 Separation gel: 11% polyacrylamide  
 Electrophoresis: 100V, 4°C, 3h  
 Transmembrane: 100V, 4°C, 45min  
 Blocking: 5% w/v nonfat dry milk, 1 × TBST, at RT with gentle shaking  
 Primary antibody: 1:1000 in blocking buffer, 4°C, overnight  
 Visualization: ECL, 30S



## Immunohistochemistry-Anti-Pygopus 2 pAb

Sample: Human lung cancer tissue  
 Antigen retrieval: pH 6.0 citrate buffer  
 Primary antibody: 1:100, 4°C, overnight  
 Secondary antibody-Biotin: 1:150, 37°C, 1h  
 Streptavidin-HRP: 1:200, 37°C, 30min  
 Visualization: DAB



## Immunohistochemistry-Anti-Pygopus 2 pAb

Sample: Rat brain tissue  
 Antigen retrieval: pH 6.0 citrate buffer  
 Primary antibody: 1:100, 4°C, overnight  
 Secondary antibody-Biotin: 1:150, 37°C, 1h  
 Streptavidin-HRP: 1:200, 37°C, 30min  
 Visualization: DAB