

p130 Monoclonal Antibody (130P215 (DCS-215))

Catalog NumberMA5-14305

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100
Clone	130P215 (DCS-215)	Immunoprecipitation (IP)	2 µg/mL
Immunogen	A synthetic peptide from p130 corresponding to aa878-913	Western Blot (WB)	1-2 µg/mL
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Concentration	0.4 mg/mL	Western Blot (WB)	See 2 publications below
Purification	Protein G	* 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.	
Storage buffer	PBS, pH 7.4, with 0.2% BSA		
Contains	0.09% sodium azide		
Storage Conditions	4° C		

Product specific information

MA5-14305 targets p130/Rb2 in IF, IHC (P), IP, and WB applications and shows reactivity with Human and Rat samples. The MA5-14305 immunogen is a synthetic peptide from p130 corresponding to aa878-913.

Background/Target Information

RBL2 (also known as p130) or Retinoblastoma-like protein 2 is a key regulator of entry into cell division. It is directly involved in heterochromatin formation by maintaining overall chromatin structure and (in particular) that of constitutive heterochromatin by stabilizing histone methylation. RBL2 recruits and targets histone methyltransferases KMT5B and KMT5C leading to epigenetic transcriptional repression. It controls histone H4 'Lys20' trimethylation. It probably also acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. RBL2 serves as a potent inhibitor of E2F-mediated trans-activation and associates preferentially with E2F5.

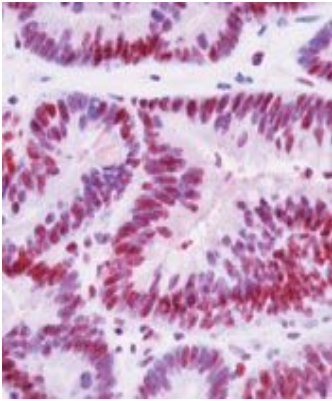
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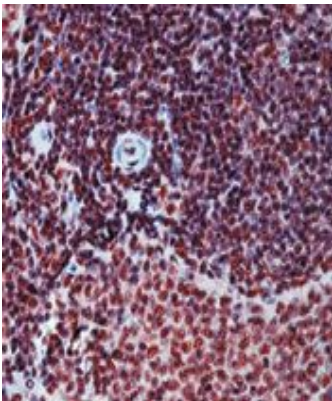
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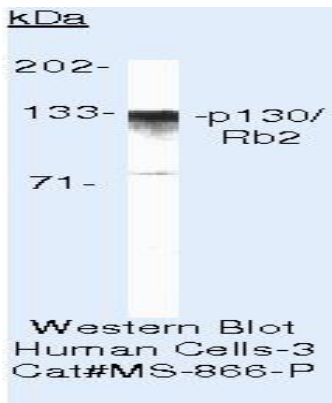
Product Images For p130 Monoclonal Antibody (130P215 (DCS-215))



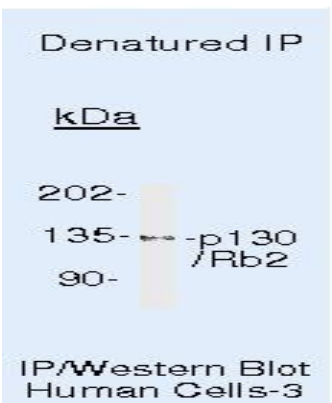
p130 Antibody (MA5-14305) in IHC (P)
Formalin-fixed, paraffin-embedded human colon cancer stained with p130 antibody using peroxidase-conjugate and AEC chromogen. Note nuclear staining of tumor cells.



p130 Antibody (MA5-14305) in IHC (P)
Formalin-fixed, paraffin-embedded rat spleen stained with p130 antibody using peroxidase-conjugate and AEC chromogen. Note nuclear staining of splenic cells.



p130 Antibody (MA5-14305) in WB
Western blot of p130/Rb2 using p130/Rb2 Monoclonal Antibody (Product # MA5-14305) on A427 Cells.



p130 Antibody (MA5-14305) in IP
Immunoprecipitation of p130/Rb2 using p130/Rb2 Monoclonal Antibody (Product # MA5-14305) on denatured Human A427 Cells.

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PubMed References For p130 Monoclonal Antibody (130P215 (DCS-215))

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
	MA5-14305 was used in immunohistochemistry - paraffin section to identify diagnostic and prognostic markers for glioblastoma
Not Applicable / 1:40	International journal of oncology (2012; 40: 1122) "Identification of prognostic biomarkers for glioblastomas using protein expression profiling." Author(s):Jung Y,Joo KM,Seong DH,Choi YL,Kong DS,Kim Y,Kim MH,Jin J,Suh YL,Seol HJ,Shin CS,Lee JI,Kim JH,Song SY,Nam DH PubMed Article URL: http://dx.doi.org/10.3892/ijo.2011.1302

2 Western Blot References

Species / Dilution	Summary
	MA5-14305 was used in western blot to study promoter binding by the E2F and pRB families in vivo
Human / Not Cited	Genes & development (2000; 14: 804) "Analysis of promoter binding by the E2F and pRB families in vivo: distinct E2F proteins mediate activation and repression." Author(s):Takahashi Y,Rayman JB,Dynlacht BD PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/10766737
Human / Not Cited	MA5-14305 was used in western blot to evaluate the therapeutic effectiveness of a human papillomavirus antagonist peptide for cancer treatment
Human / Not Cited	PloS one (2011; 6:) "Potent anti-tumor effect generated by a novel human papillomavirus (HPV) antagonist peptide reactivating the pRb/E2F pathway." Author(s):Guo CP,Liu KW,Luo HB,Chen HB,Zheng Y,Sun SN,Zhang Q,Huang L PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0017734

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