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Myb Sumoylation Site Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2500a

Product Information

Application	IHC-P, WB, E
Primary Accession	P10242
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB2559
Calculated MW	72341
Antigen Region	506-534

Additional Information

Gene ID	4602
Other Names	Transcriptional activator Myb, Proto-oncogene c-Myb, MYB
Target/Specificity	This Myb Sumoylation Site antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 506-534 amino acids from human Myb Sumoylation Site.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Myb Sumoylation Site Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MYB
Function	Transcriptional activator; DNA-binding protein that specifically recognize the sequence 5'-YAAC[GT]G-3'. Plays an important role in the control of proliferation and differentiation of hematopoietic progenitor cells.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00625,

ECO:0000269|PubMed:19646965}

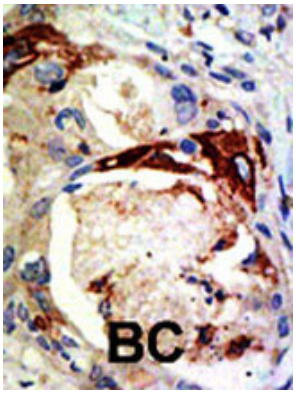
Background

Myb is a transcriptional activator; DNA-binding protein that recognizes the sequence 5'-YAAC[GT]G-3'. It participates in the control of proliferation and differentiation of hematopoietic progenitor cells. Myb is a transcription factor related to Myc, and is expressed predominantly in haematopoietic cells and immature gastroepithelial cells. TRAF7 stimulates the sumoylation of Myb at Lys-523 and Lys-499, which are the same sites as those used for PIASy-induced sumoylation. A correlation has been established between reduction in sumoylation of Myb and increase in transcriptional activation. Negative influence on transactivation properties by the negative regulatory domain region of c-Myb depends on upon sumoylation.

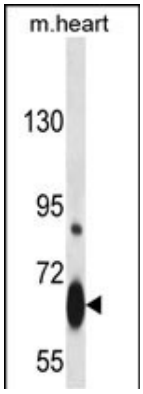
References

Luchetti, M.M., et al., J. Biol. Chem. 278(3):1533-1541 (2003).
Dahle, O., et al., Eur. J. Biochem. 270(6):1338-1348 (2003).
Chen, J., et al., Oncogene 21(12):1859-1869 (2002).
Hernandez-Munain, C., et al., J. Immunol. 169(8):4362-4369 (2002).
Tanno, B., et al., J. Biol. Chem. 277(26):23172-23180 (2002).

Images



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Myb Antibody (Sumo) (Cat. #AP2500a) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the Myb antibody detected the Myb protein (arrow).