

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse MYB in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MYB Lys503-Met640 Accession # P10242
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

MYB (*myeloblastosis protooncogene*) is an 80 kDa transcriptional activator. It is found in hematopoietic and intestinal crypt epithelial cells. MYB interacts with p300 and activates multiple genes, including Bcl2, GATA3, and MYC. Although MYB is thought of as a pro-proliferation and antidiifferentiation factor, it would now appear that MYB contributes to both T- and B-cell maturation and to cell survival in general. Human MYB is 640 amino acids (aa) in length. It contains three DNA binding, HTH-myb type domains (aa 35-193), one transcriptional activation segment (aa 275-327), and a Leu-zipper motif (aa 376-397). There are multiple potential splice forms. One shows an alternate start site at Met189 coupled with a 99 aa substitution for aa 567-640. Another shows a 121 aa insertion after Ser401. Four show C-terminal substitutions: a 34 aa substitution for aa 314-640, a Met substitution for aa 402-640, a seven aa substitution for aa 317-640, and a 10 aa substitution for aa 603-640. Over aa 503-640, human MYB shares 84% aa identity with mouse MYB.

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