

Store at -20C  
#3535**GATA-1 (D52H6) XP<sup>®</sup> Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-P, IF-IC, FC-FP	H M R	Endogenous	43	Rabbit IgG	#P15976	2623

<b>Product Usage Information</b>	<b>Application</b>	<b>Dilution</b>
	Western Blotting	1:1000
	Immunoprecipitation	1:50
	Immunohistochemistry (Paraffin)	1:50 - 1:200
	Immunofluorescence (Immunocytochemistry)	1:200 - 1:800
	Flow Cytometry (Fixed/Permeabilized)	1:400 - 1:1600
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
	For a carrier free (BSA and azide free) version of this product see product #40977.	
<b>Specificity/Sensitivity</b>	GATA-1 (D52H6) XP <sup>®</sup> Rabbit mAb detects endogenous levels of GATA-1 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu13 of human GATA-1.	
<b>Background</b>	GATA proteins comprise a group of transcription factors that are related by the presence of conserved zinc finger DNA-binding domains, which bind directly to the nucleotide sequence core element GATA (1-3). There are six vertebrate GATA proteins, designated GATA-1 to GATA-6 (3).  GATA-1 is the founding member of the GATA family and is required for erythroid and megakaryocytic cell development (4,5). Mutations in the corresponding <i>GATA-1</i> gene are linked to many human diseases, including acute megakaryoblastic leukemia in Down Syndrome children (DS-AMKL), X-linked thrombocytopenia, and gray platelet syndrome (6-9).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Ko, L.J. and Engel, J.D. (1993) <i>Mol Cell Biol</i> 13, 4011-22.</li> <li>2. Merika, M. and Orkin, S.H. (1993) <i>Mol Cell Biol</i> 13, 3999-4010.</li> <li>3. Lowry, J.A. and Atchley, W.R. (2000) <i>J Mol Evol</i> 50, 103-15.</li> <li>4. Pevny, L. et al. (1991) <i>Nature</i> 349, 257-60.</li> <li>5. Fujiwara, Y. et al. (1996) <i>Proc Natl Acad Sci USA</i> 93, 12355-8.</li> <li>6. Wechsler, J. et al. (2002) <i>Nat Genet</i> 32, 148-52.</li> <li>7. Cantor, A.B. (2005) <i>Int J Hematol</i> 81, 378-84.</li> <li>8. Mehaffey, M.G. et al. (2001) <i>Blood</i> 98, 2681-8.</li> <li>9. Tubman, V.N. et al. (2007) <i>Blood</i> 109, 3297-9.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat	
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