

**#8479** Store at -20°C

## GDF15/MIC1 (D2A3) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	35, 13	Rabbit IgG	#Q99988	9518

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<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.	
<b>Specificity / Sensitivity</b>	GDF15/MIC1 (D2A3) Rabbit mAb recognizes endogenous levels of total GDF15/MIC1 protein, including the processed mature form.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human GDF15/MIC1 protein.	
<b>Background</b>	Macrophage inhibitory cytokine-1 (Mic-1), also termed GDF15 (1), PTGF-β (2), PLAB (3), PDF (4), and NAG-1 (5), is a divergent member of the transforming growth factor-β (TGF-β) superfamily (6). Like other family members, Mic-1 is synthesized as an inactive precursor that undergoes proteolytic processing involving removal of an N-terminal hydrophobic signal sequence followed by cleavage at a conserved RXXR site, generating an active C-terminal domain that is secreted as a dimeric protein. Mic-1 is highly expressed in the placenta and is also dramatically increased by cellular stress, acute injury, inflammation, and cancer. In the brain, Mic-1 is found in the choroid plexus and is secreted into the cerebrospinal fluid (7). It is also a transcriptional target of the p53 tumor suppressor protein and may serve as a biomarker for p53 activity (8,9). During tumor progression, Mic-1 has various effects on apoptosis, differentiation, angiogenesis, and metastasis, and may also contribute to weight loss during cancer (10,11).	
<b>Background References</b>	1. Strelau, J. et al. (2000) <i>J Neurosci</i> 20, 8597-603. 2. Yokoyama-Kobayashi, M. et al. (1997) <i>J Biochem</i> 122, 622-6. 3. Hromas, R. et al. (1997) <i>Biochim Biophys Acta</i> 1354, 40-4. 4. Paralkar, V.M. et al. (1998) <i>J Biol Chem</i> 273, 13760-7. 5. Baek, S.J. et al. (2001) <i>J Biol Chem</i> 276, 33384-92. 6. Bootcov, M.R. et al. (1997) <i>Proc Natl Acad Sci USA</i> 94, 11514-9. 7. Strelau, J. et al. (2000) <i>J Neural Transm Suppl</i> , 273-6. 8. Kannan, K. et al. (2000) <i>FEBS Lett</i> 470, 77-82. 9. Yang, H. et al. (2003) <i>Mol Cancer Ther</i> 2, 1023-9. 10. Johnen, H. et al. (2007) <i>Nat Med</i> 13, 1333-40. 11. Bauskin, A.R. et al. (2006) <i>Cancer Res</i> 66, 4983-6.	

<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>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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