

#3209 Store at -20°C

GDF15/MIC1 (L300) Antibody


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

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

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	GDF15/MIC1 (L300) Antibody detects endogenous levels of total GDF15/MIC1 protein including its active processed form.	
Species predicted to react based on 100% sequence homology:	Monkey	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxyl terminus of human GDF15/MIC1. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	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).	
Background References	<ol style="list-style-type: none"> 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. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	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.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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