

**Ghrelin (D4K1W) Rabbit mAb**

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

<b>Applications:</b> IF-F	<b>Reactivity:</b> M R	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9EQX0	<b>Entrez-Gene Id:</b> 58991
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<b>Product Usage Information</b>	<b>Application</b>	<b>Dilution</b>
	Immunofluorescence (Frozen)	1:400
<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>	Ghrelin (D4K1W) Rabbit mAb recognizes endogenous levels of total ghrelin protein. The antibody detects acylated (n-octanoyl) and non-acylated (desacyl) forms of ghrelin (confirmed by Western blot analysis of synthetic ghrelin protein).	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of mouse ghrelin protein.	
<b>Background</b>	Ghrelin, also known as appetite-regulating hormone, is a neuropeptide hormone belonging to the motilin family. It is the ligand for the growth hormone secretagogue receptor type 1 (GHS-R), expressed by cells in the hypothalamic ventromedial nucleus and arcuate nucleus (1). Ghrelin is synthesized as a preprohormone by ghrelinergic cells in the gastrointestinal tract; proteolytic cleavage yields a 28-amino acid peptide hormone, which undergoes obligate n-octanoylation at serine 3 by the enzyme ghrelin O-acetyltransferase (GOAT) (2). Binding of n-octanoyl ghrelin to GHS-R stimulates growth hormone release, while simultaneously exerting multiple neuroendocrine effects that influence appetite, gastric motility and energy balance (3).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Inui, A. et al. (2004) <i>FASEB J</i> 18, 439-56.</li> <li>2. Gutierrez, J.A. et al. (2008) <i>Proc Natl Acad Sci U S A</i> 105, 6320-5.</li> <li>3. Muccioli, G. et al. (2002) <i>Eur J Pharmacol</i> 440, 235-54.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>IF-F:</b> Immunofluorescence (Frozen)
<b>Cross-Reactivity Key</b>	<b>M:</b> Mouse <b>R:</b> Rat
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