Store at -20C

Cell Signaling Mouse Interleukin-17A (mIL-17A) TECHNOLOGY® Orders: Support:

orders@cellsignal.com 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com

877-616-CELL (2355)

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

MW (kDa): 15-22	UniProt ID: #Q62386	Entrez-Gene Id: 16171
Background	IL-17A is a cystine-linked homodimeric pro-inflammatory cytokine produced by Th ₁₇ cells, a distinct CD4+ cell lineage (1,2). IL-17A stimulates the production of the pro-inflammatory cytokines IL-1β, TNF α , and IL-6. IL-17A also induces production of the neutrophil chemoattractants IL-8, CXCL1, and CXCL6 thereby bridging adaptive and innate immunity (1,2). IL-17A is intimately involved in mucosal immunity against bacterial infections (1,3) and has a putative role in some autoimmune disorders (1,4). IL-17A effects appear to be exerted primarily through binding to the IL-17RA (5). IL-17A binding induces production of cytokines, chemokines and other proteins through activation of the Erk1/2 MAP kinase, PI3K/Akt, p38, and NF-κB pathways (3,4,6). Phosphorylation of some Jaks and Stats has been observed.	
Endotoxin	Less than 0.01	ng endotoxin/1µg mIL-17A.
Purity	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant mIL-17A. All lots are greater than 98% pure.	
Source / Purification	Recombinant mouse IL-17A (mIL-17A) Thr22-Ala158 (Accession #NP_034682) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant mIL-17A was determined by its ability to induce mouse IL-6 production by 3T3 MEFs WT. The ED ₅₀ of each lot is between 0.4-1.4 ng/ml.	
Background	IL-17A is a cystine-linked homodimeric pro-inflammatory cytokine produced by Th ₁₇ cells, a distinct CD4+ ⁻ cell lineage (1,2). IL-17A stimulates the production of the pro-inflammatory cytokines IL-1β, TNFα, and IL- 6. IL-17A also induces production of the neutrophil chemoattractants IL-8, CXCL1, and CXCL6 thereby bridging adaptive and innate immunity (1,2). IL-17A is intimately involved in mucosal immunity against bacterial infections (1,3) and has a putative role in some autoimmune disorders (1,4). IL-17A effects appear to be exerted primarily through binding to the IL-17RA (5). IL-17A binding induces production of cytokines, chemokines and other proteins through activation of the Erk1/2 MAP kinase, PI3K/Akt, p38, and NF-κB pathways (3,4,6). Phosphorylation of some Jaks and Stats has been observed.	
Background References		d Lindén, A. (2004) Immunity 21, 467-76.
	_	t al. (2006) <i>J Exp Med</i> 203, 2271-9. nd Kolls, J.K. (2008) <i>Immunol Rev</i> 226, 160-71.
	4. Zrioual, S. et	al. (2009) J Immunol 182, 3112-20.
	•	et al. (2008) <i>J Immunol</i> 181, 2799-805. S. et al. (2006) <i>J Immunol</i> 177, 4064-71.
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	
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.	
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms an conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.	

Mouse Interleukin-17A (mIL-17A) (#5227) Datasheet Without Images Cell Signaling Technology

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.