

## OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-858-888-7900 Fax: +1-858-888-7904 <u>US-info@acris-antibodies.com</u>

## PA1096 OriGene EU

Acris Antibodies GmbH Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

## Human Interleukin-19 (IL-19) - Purified

Alternate names:	IL19
Catalog No.:	PA1096
Quantity:	2 µg
Concentration:	1 mg/ml (prior to lyophil.)
Background:	IL19 is a cytokine that belongs to the IL10 cytokine subfamily. IL-19 is found to be preferentially expressed in monocytes. It can bind the IL20 receptor complex and lead to the activation of the signal transducer and activator of transcription 3 (STAT3). A similar cytokine in mouse is reported to up-regulate the expression of IL6 and TNF-alpha and induce apoptosis, which suggests a role of this cytokine in inflammatory responses. Alternatively spliced transcript variants encoding the distinct isoforms have been described.
Species:	Human
Source:	E. coli, E.coli
Format:	<ul> <li>State: Lyophilized</li> <li>Purity: &gt;98% Purified by proprietary chromatographic techniques, sterile Filtered, purity is greater than 99.0 % as determined by:</li> <li>(a) Analysis by RP-HPLC.</li> <li>(b) Analysis by SDS-PAGE.</li> <li>Buffer System: 10 mM sodium citrate pH 5.</li> <li>Reconstitution: Sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.</li> </ul>
Description:	<ul> <li>Interleukin-19 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 155 amino acids.</li> <li>AA Sequence:</li> <li>The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Arg-Arg-Cys.</li> <li>Biological Activity: The activity is determined by it's ability to activate STAT following receptor-ligand interaction.</li> <li>Molecular weight: 18 kDa 17913 Dalton.</li> </ul>
Storage:	Lyophilized product is stable at room temperature for one month, should be stored desiccated below -20 °C. Upon reconstitution it should be stored at 2 – 8 °C up to one week and for future use below -20 °C. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Okayama N, Suehiro Y, Hamanaka Y, Nakamura J, Hinoda Y. Association of interleukin-19 gene polymorphisms with age. J Gerontol A Biol Sci Med Sci. 2007 May;62(5):507-11. PubMed PMID: 17522354.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



OG/20130615

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



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2. Zdanov A. Structural studies of the interleukin-19 subfamily of cytokines. Vitam Horm. 2006;74:61-76. PubMed PMID: 17027511.

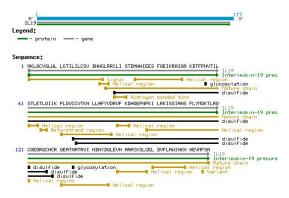
3. Hsing CH, Hsieh MY, Chen WY, Cheung So E, Cheng BC, Chang MS. Induction of interleukin-19 and interleukin-22 after cardiac surgery with cardiopulmonary bypass. Ann Thorac Surg. 2006 Jun;81(6):2196-201. PubMed PMID: 16731153.

4. Chen PJ, Wei CC, Wang C, Chen FW, Hsu YH, Chang MS. Promoter analysis of interleukin 19. Biochem Biophys Res Commun. 2006 Jun 9;344(3):713-20. Epub 2006 Apr 7. PubMed PMID: 16631120.

5. Otkjaer K, Kragballe K, Funding AT, Clausen JT, Noerby PL, Steiniche T, et al. The dynamics of gene expression of interleukin-19 and interleukin-20 and their receptors in psoriasis. Br J Dermatol. 2005 Nov;153(5):911-8. PubMed PMID: 16225599.

6. Li HH, Lin YC, Chen PJ, Hsiao CH, Lee JY, Chen WC, et al. Interleukin-19 upregulates keratinocyte growth factor and is associated with psoriasis. Br J Dermatol. 2005 Sep;153(3):591-5. PubMed PMID: 16120148.

Pictures: Precursor- Protein structure and amino acid sequence



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