bio-techne[®] RDSYSTEMS

Human CCL16/HCC-4 Antibody

Monoclonal Mouse IgG₁ Clone # 70218 Catalog Number: MAB328

DESCRIPTION

Species Reactivity	Human		
Specificity	Detects human CCL16/HCC-4 in direct ELISAs and Western blots.		
Source	Monoclonal Mouse IgG ₁ Clone # 70218		
Purification	Protein A or G purified from ascites		
Immunogen	<i>E. coli</i> -derived recombinant human CCL16/HCC-4 Gln24-Gln120 Accession # O15467		
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.		
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.		

APPLICATIONS					
Please Note: Optimal dilutions should be of	determined by each laboratory for each applic	ation. General Protocols are available in the Technical Information section on our website.			
Human CCL16/HCC-4 Sandwich Immunoassay		Reagent			
ELISA Capture	2-8 µg/mL	Human CCL16/HCC-4 Antibody (Catalog # MAB328)			
ELISA Detection	0.1-0.4 µg/mL	Human CCL16/HCC-4 Biotinylated Antibody (Catalog # BAF802)			
Standard		Recombinant Human CCL16/HCC-4 (Catalog # 802-HC)			
Neutralization	Measured by its ab transfected with hu 0.75 μg/mL Recom	Measured by its ability to neutralize CCL16/HCC-4-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR1. The Neutralization Dose (ND ₅₀) is typically 5-20 μg/mL in the presence of 0.75 μg/mL Recombinant Human CCL16/HCC-4.			



PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. 	

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BACKGROUND

Human HCC-4, also named NCC-4, liver-expressed chemokine (LEC), and lymphocyte and monocyte chemoattractant (LMC), is a novel CC chemokine identified through bioinformatics. HCC-4 cDNA encodes a 120 amino acid (aa) residue precursor protein with a 23 aa residue predicted signal peptide that is cleaved to generate a 97 aa residue mature protein. HCC-4 is distantly related to other CC chemokines, exhibiting less than 30% aa sequence identity. Among these CC chemokines, HCC-4 has the most similarity to HCC-1. Two potential polyadenylation signals are present on the human HCC-4 gene, and as a result, two transcripts containing approximately 1,500 base pairs and 500 base pairs have been detected. HCC-4 is expressed weakly by some lymphocytes, including NK cells, $\gamma\delta$ T cells, and some T cell clones. The expression of HCC-4 in monocytes is highly upregulated in the presence of IL-10. The HCC-4 gene has been mapped to chromosome 17q where multiple CC chemokines are clustered.

Recombinant HCC-4 has been shown to chemoattract human monocytes and THP-1 cells but not resting lymphocytes or neutrophils. HCC-4 has also been found to suppress proliferation of myeloid progenitor cells. The HCC-4 induced calcium flux in THP-1 cells can be desensitized by prior exposure to RANTES, suggesting that HCC-4 and RANTES share the same receptor in THP-1 cells.

References:

- 1. Shoudai, K. et al. (1998) Biochim. Biophys. Acta 1396:273.
- 2. Hedrick, J. et al. (1998) Blood 91:4242.
- 3. Youn, B-S. et al. (1998) BBRC 247:217.

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