

Mouse CD34 protein (Recombinant) (STJP000636)

STJP000636

GENERAL INFORMATION

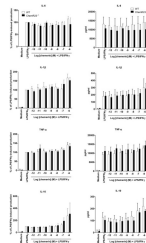
Product Type	Proteins
Short Description	Recombinant-Mouse CD34-protein was developed from hek293. For use in research applications.
Host/Source	HEK293

PRODUCT PROPERTIES

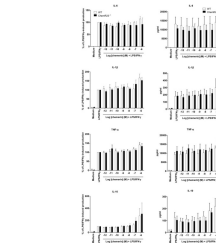
Concentration	
Formulation	Recombinant mouse CD34 is supplied as a 0.2 Mu m filtered PBS solution, pH7.2.
Purification	
Dilution Range	>95%, as determined by SDS-PAGE and HPLC
Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2-8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss
Instruction	

TARGET INFORMATION

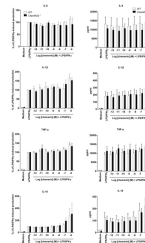
Gene ID	12490
Gene Symbol	Cd34
Uniprot ID	CD34_MOUSE
Immunogen Sequence	



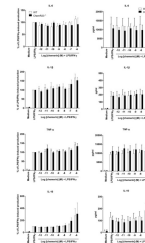
The concentrations of TNF Alpha, CXCL12 and CCL2 were measured in cell supernatants by using ELISA kits in accordance with the manufacturer's protocols (TNF Alpha and CXCL12 from R&D systems; CCL2 from an EITMx-3000 reader). Supernatants were collected 24 h after infection, spun at 10,000 rpm for 10 min to discard bacteria and cell debris, and stored at -80°C until assayed.



Primary crypts were cultured according to Sato et al. using reduced concentrations of murine recombinant-spondin1 (500ng/mL -Δ) and varying concentrations of EGF. Organoid structures were imaged at day 6. Cell proliferation was measured by BrdU incorporation by incubation with 20 μM BrdU for 1 hour at 37°C before fixation.



Bio-Gel injection and selected by adherence, were tested for their production of pro-inflammatory (IL-6, IL-1β and TNF-α) and anti-inflammatory (IL-10) cytokines in response to stimulation by LPS and IFN-γ, in the presence or not of graded concentrations of recombinant chemerin (from 10⁻¹² to 10⁻⁶ M).



Isolated crypts were counted and embedded in matrigel (356231 growth factor reduced) that contains 1 μM Jagged (Ana-Spec) at 5-10 crypts/μl and cultured in a modified form of medium as described in Briefly, MEM/F12 was supplemented by EGF 40 ng/ml, Noggin 200 ng/ml, spondin 500 ng/ml (Δor), N-Acetyl-L-cysteine 1 μM and 1,2,3-bis(4-hydroxyphenyl)propane 20 ng/ml. cADPR, when indicated, was added to culture at 50 μM. 30-50 μl drops of matrigel with crypts were plated onto a flat bottom 48-well plate (3548) and allowed to solidify for 20 to 30 minutes in a 37°C C. 350 μl of crypt culture medium was then overlaid onto the matrigel, changed every other day, and maintained at 37°C in fully humidified chambers containing 6% CO₂. Clonogenicity (colony-forming efficiency) was calculated by plating 50 to 400 crypts and assessing organoid formation 3 to 7 days after initiation...

This product is suitable for in-vitro studies under the RESEARCH USE ONLY [RUO] licence. This product must not be used as for diagnostic or other medical purposes.

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