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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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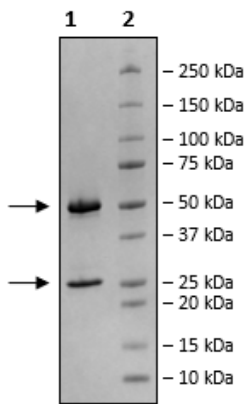
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Product Information

Description:	This anti-ITGA4-ITGB7 antibody is a purified, recombinant monoclonal antibody that recognizes human Integrin Alpha 4 Beta 7 (complex of ITGA4 (Integrin Alpha-4) and ITGB7 (Integrin Beta-7)). This antibody has been tested for activity in a binding assay. This antibody is similar to Vedolizumab.
Background:	Integrin alpha 4 beta 7 ($\alpha 4\beta 7$) is also known as Lymphocyte Peyer's patch adhesion molecule-1 (LPAM-1), a heterodimer composed of the integrin beta 7 subunit (ITGB7) and the ITGA4 subunit (also known as CD49d or integrin alpha 4), of interest in studies of the gastrointestinal tissue. Key interactions include surface adhesion molecules such as MADCAM1 (mucosal vascular addressin cell adhesion molecule 1) and VCAM (vascular cell adhesion molecule), as well as fibronectin. This protein has been linked to diseases such as UC (ulcerative colitis) and Crohn's disease, amongst others. There are several approved LPAM-1 targeting therapeutics, such as vedolizumab (commercially known as Entyvio, Takeda), that aim to mitigate inflammatory bowel disease and cancer, with more clinical trials underway.
Species:	Human
Isotype:	IgG1
Clonality:	Monoclonal
Concentration:	1.66 mg/ml
Expression System:	HEK293
Purity:	$\geq 90\%$
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	Heavy chain: 50 kDa + glycans; Light chain: 24 kDa
Endotoxin Level:	3 EU/mg
Glycosylation:	This antibody runs at a higher MW by SDS-PAGE due to glycosylation.
Stability:	At least 6 months at -80°C .
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	A white 96-well plate was precoated with ITGA4-ITGB7 protein (AcroBiosystems #IT7-H52W4) (100 ng/well). Blocking Buffer 3 (#79743) and PBST were used for blocking and washing steps, respectively. For protein titration a serial dilution of Anti-ITGA4-ITGB7 Neutralizing Antibody (#102488) at the highest concentration of 10 ng/ μl (250 ng/reaction) was prepared in 1x PP-02 Assay Buffer (#82620). Diluted Anti-ITGA4-ITGB7 Neutralizing Antibody was then added to the wells and the plate was incubated at Room Temperature (RT) for 1 hour. The plate was then washed again and incubated with an anti-Fc-HRP conjugate diluted 1:1000 in Blocking Buffer 2 for 1 hour at RT. After the final wash, ELISA ECL mix (#79670) was added to each well and chemiluminescence was read.
Applications:	Useful for binding assays.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



ITGA4-ITGB7:Anti-ITGA4-ITGB7 Binding Activity

