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Data Sheet

LAG3 (CD223), Fc-Fusion, Avi-Tag, Biotin-Labeled

Human, Recombinant, Fc fusion protein, C-terminal Avi-tag™, Biotin-Labeled
Catalog #: 71147
Lot #: 190207 **Conc.:** 1.29 mg/ml

Formulated in: 20 mM NaOAC, pH 5.5, 500 mM NaCl, 0.02% Tween 20 and 10% glycerol

Stability: At least 6 months at –80°C. *Avoid freeze/thaw cycles. Protein may be diluted to ≥ 100 µg/ml in PBS + glycerol and stored at -80°C.*

References:

1. Byrnes, *et al., Cytometry A.* 2012 Sep;**81(2):**165-8.
2. Di Carlo, *et al., J. Pathol.* 2005 Jan; **205(1):**82-91.

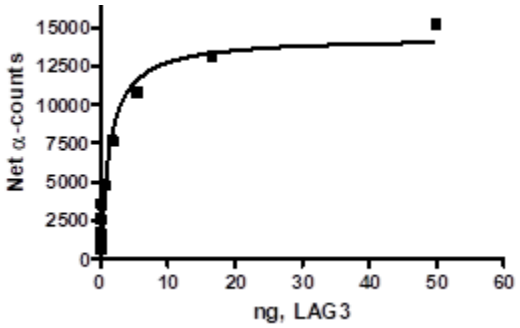
Description:
Human secreted LAG3, Fc fusion protein, also known as Lymphocyte-Activation Gene 3 and CD223, with C-terminal Avi-Tag™. GenBank Accession No. NM_002286, a.a. 23-450 expressed in a HEK293 cell expression system and enzymatically biotin-labeled using Avi-tag™ technology. MW = 75 kDa (monomer). This protein runs at a higher MW by SDS-PAGE due to glycosylation.

Assay Conditions: 5 µl FGL1 His from Cloud Clone Corp. #RPD011Hu01 P20190118898 was used with a final concentration of 100 nM along with 5 µl of titrated LAG3 [B] catalog #71147 titrated from 150-0 ng/rxn and incubated at room temperature for 1 hour. 10 µl 1:250-fold diluted Ni acceptor beads Perkin Elmer #AL108C were added to the plate and incubated at room temperature for 30 min. 10 µl 1:125-fold diluted Strep Donor Beads Perkin Elmer #67600025 were added and incubated at room temperature for 1 hour.

Application:
Useful for studying protein binding and screening small molecules.

Quality Assurance

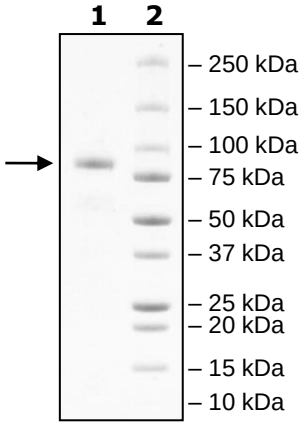
Specific Activity



4-20% SDS-PAGE
Coomassie staining

Lane 1:
2µg LAG3
Lane 2:
Protein Marker

MW: 75 kDa
Purity: ≥90%



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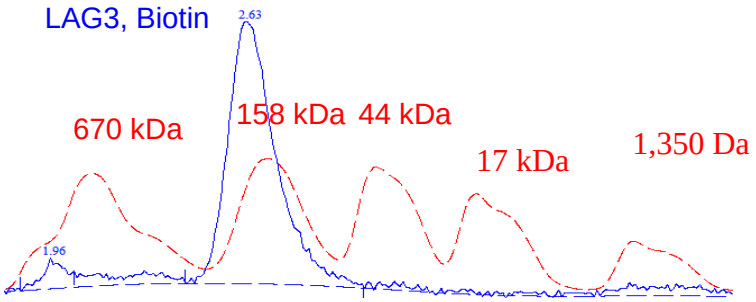
Gel Filtration Trace



<10% aggregation

Sequence

LQPGAEVPVVWAQEGAPAQLPCSPTIPLQDLSLLRRAGVTWQHQPDSGPPAAAPG
HPLAPGPHPAAPSSWGPRPRRYTVLSVGPGGLRSGRLPLQPRVQLDERGRQRGDF
SLWLRPARRADAGEYRAAVHLRDRALSCRLRLRLGQASMTASPPGSLRASDWVIL
NCSFSRPDRPASVHWFRNRGQGRVPVRESPHHHLAESFLFLPQVSPMDSGPWGCI
LTYRDGFNVSIMYNLTVLGLEPPTPLTVYAGAGSRVGLPCRLPAGVGTRSFLTAK
WTPPGGGPDLLVTGDNGDFTLRLEDVSQAQAGTYTCHIHLQEQQLNATVTLAIIT
VTPKSFGSPGSLGKLLCEVTPVSGQERFVWSSLDTPSQRSFSGPWLEAQEAQLLS
QPWQCQLYQGERLLGAAVYFTELSSPGAQRSGRAPGALPAGHLIEIEGRMDPKSC
DKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF
NWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPA
PIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNG
QPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKS
LSLSPGKGGGLNDIFEAQKIEWHE

Black: LAG3 (a.a. 23-450)
Blue: linker
Red: Fc Fusion
Green: Avi Tag

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