

Product Datasheet

Integrin alpha 5 beta 1 Antibody (SG/19) [CoraFluor™ 1] - Chimeric NBP3-43579CL1

Unit Size: 0.1 ml

Store at 4C in the dark. Do not freeze.

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Updated 8/13/2025 v.20.1

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NBP3-43579CL1

Integrin alpha 5 beta 1 Antibody (SG/19) [CoraFluor™ 1] - Chimeric

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark. Do not freeze.
Clonality	Monoclonal
Clone	SG/19
Preservative	No Preservative
Isotype	IgG
Conjugate	CoraFluor 1
Purity	Protein A purified
Buffer	PBS
Product Description	
Description	<p>CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence Resonance Energy Transfer) or TRF (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(TM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 585 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1. CoraFluor(TM) 1 can be used for the development of robust and scalable TR-FRET binding assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.</p> <p>CoraFluor(TM) 1, amine reactive</p> <p>CoraFluor(TM) 1, thiol reactive</p> <p>For more information, please see our CoraFluor(TM) TR-FRET technology flyer.</p>
Host	Rabbit
Gene ID	3678
Gene Symbol	ITGA5
Species	Human
Specificity/Sensitivity	<p>This antibody binds human integrin alpha 5 beta 1 near the N-terminus. Epitope mapping of SG/19 revealed that Thr82 in the 1 subunit, located at the outer face of the boundary between the I-like and hybrid domains, was the key binding determinant for this antibody. Integrin alpha5 beta 1 is also known as fibronectin receptor and binds matrix macromolecules and proteinases and thereby stimulates angiogenesis. Integrin alpha5beta1, is a member of the integrin family, is a heterodimer composed by two subunits, alpha5 (ITGA5/CD49e) and beta1 (ITGB1/CD29), and both are necessary for complete biological functions. The interaction of VLA-5 with fibronectin plays an important role in regulating inflammatory cytokine production by human articular chondrocytes (From the Cell Migration Gateway ITGA5 ITGB1</p>
Immunogen	The original antibody was generated by immunizing BALB/c mice with Nalm-6 cells. (Uniprot# P05556)



Notes	CoraFluor (TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/0025254
Product Application Details	
Applications	Flow Cytometry, Functional, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Functional
Application Notes	Optimal dilution of this antibody should be experimentally determined.





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Products Related to NBP3-43579CL1

210-TA-005	TNF-alpha [Unconjugated]
7728-A5-050	Integrin alpha 5 beta 1
M6000B-1	IL-6 [HRP]
NB110-89474	CD11b Antibody - BSA Free

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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