

Brilliant Violet 421™ anti-DYKDDDDK Tag Antibody

Catalog# / Size	637321 / 25 µg 637322 / 100 µg
Clone	L5
Regulatory Status	RUO
Other Names	FLAG tag
Isotype	Rat IgG2a, λ
Description	The DYKDDDDK tag, commonly referred to as Sigma®'s FLAG® Tag, is often used as a protein modification in order to simplify the labeling and detection of proteins. This unique amino acid sequence allows for specific antibody detection in western blotting, immunoprecipitation, and immunostaining techniques. Due to the short sequence, this modification is not likely to affect the structure or function of the modified proteins.

Product Details

Verified Reactivity	DYKDDDDK tag epitope
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	DYKDDDDK-tagged mouse Langerin
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	The L5 clone has been demonstrated to have 2-8 fold better sensitivity in WB than another commonly used antibody clone, M2.
Application References	<ol style="list-style-type: none">1. Park SH, <i>et al.</i> 2008. <i>J Immunol Methods.</i> 331:27.2. Moon SH, <i>et al.</i> 2010. <i>J. Biol Chem.</i> 285:12935. PubMed3. Sasaki M, <i>et al.</i> 2011. <i>J. Biol Chem.</i> 286:39370. PubMed4. Sonder SU, <i>et al.</i> 2012. <i>J Immunol.</i> 188:5906. PubMed
(PubMed link indicates BioLegend citation)	

5. Jiang Y, et al. 2013. *Int Immunol.* 25:235. [PubMed](#)
6. Zuo X, et al. 2014. *PLoS One.* 9:84748. [PubMed](#)
7. Toyo-Oak K, et al. 2014. *J Neurosci.* 34:12168. [PubMed](#)

Product Citations

1. Alberti D, et al. 2021. *Curr Protoc.* 1:e311. [PubMed](#)
2. Boutoual R, et al. 2022. *Sci Rep.* 12:14804. [PubMed](#)
3. Coyote-Maestas W, et al. 2021. *Nat Commun.* 12:7114. [PubMed](#)
4. Guo X, et al. 2021. *iScience.* 24:103295. [PubMed](#)

RRID

AB_2750051 (BioLegend Cat. No. 637321)
 AB_2750061 (BioLegend Cat. No. 637322)

Antigen Details

Biology Area

Cell Biology

Antigen References

1. Einhauer A. 2001. *J. Biochem. Biophys. Methods.* 49:455.
2. Knappik A and Pluckthun A. 1994. *Biotechniques.* 17:754.

Gene ID

NA

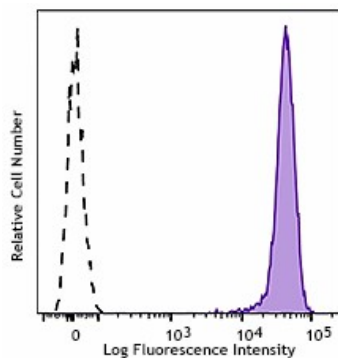
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-DYKDDDDK Tag, Anti-DYKDDDDK Tag (L5) Affinity Gel, APC anti-DYKDDDDK Tag, PE anti-DYKDDDDK Tag, Direct-Blot™ HRP anti-DYKDDDDK Tag, Alexa Fluor® 594 anti-DYKDDDDK Tag, Alexa Fluor® 647 anti-DYKDDDDK Tag, Alexa Fluor® 488 anti-DYKDDDDK Tag, PE/Cyanine7 anti-DYKDDDDK Tag, Brilliant Violet 421™ anti-DYKDDDDK Tag, PerCP/Cyanine5.5 anti-DYKDDDDK Tag, Ultra-LEAF™ Purified anti-DYKDDDDK Tag, PE/Dazzle™ 594 anti-DYKDDDDK Tag Antibody, TotalSeq™-B1129 anti-DYKDDDDK Tag, TotalSeq™-A1129 anti-DYKDDDDK Tag, TotalSeq™-C1129 anti-DYKDDDDK Tag

Product Data



DYKDDDDK tag-transfected cells were stained with anti-DYKDDDDK (clone L5) Brilliant Violet 421™ (filled histogram) or rat IgG2a, κ Brilliant Violet 421™ isotype control (open histogram).

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