

PE anti-DYKDDDDK Tag Antibody

Catalog# / Size	637309 / 25 µg 637310 / 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.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE 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 ICFC - Verified
Recommended Usage	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 ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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. PubMed 3. Sasaki M, <i>et al.</i> 2011. <i>J. Biol Chem.</i> 286:39370. PubMed 4. Sonder SU, <i>et al.</i> 2012. <i>J Immunol.</i> 188:5906. PubMed 5. Jiang Y, <i>et al.</i> 2013. <i>Int Immunol.</i> 25:235. PubMed 6. Zuo X, <i>et al.</i> 2014. <i>PLoS One.</i> 9:84748. PubMed 7. Toyo-Oak K, <i>et al.</i> 2014. <i>J Neurosci.</i> 34:12168. PubMed
Product Citations	<ol style="list-style-type: none"> 1. Gao X, <i>et al.</i> 2020. <i>J Biol Chem.</i> 14893:295. PubMed 2. Marco Barros R, <i>et al.</i> 2016. <i>Cell.</i> 167: 203-218. PubMed 3. Willcox CR, <i>et al.</i> 2020. <i>Immunity.</i> 51(5):813-825.e4.. PubMed 4. Muladitan T, <i>et al.</i> 2021. <i>Cell Rep Med.</i> 2:100457. PubMed 5. de Mingo Pulido, <i>et al.</i> 2021. <i>Immunity.</i> 54(6):1154-1167.e7. PubMed

6. Nagareddy B, *et al.* 2020. J Biol Chem. 295:13887. [PubMed](#)
7. Chen JS, *et al.* 2022. Sci Immunol. 7:eabl5652. [PubMed](#)
8. He H, *et al.* 2021. J Immunother Cancer. 9:. [PubMed](#)
9. Liao Q, *et al.* 2020. Biomark Res. 8:57. [PubMed](#)
10. Gao X, *et al.* 2018. Sci Rep. 8:2730. [PubMed](#)
11. Galli A, *et al.* 2022. Virus Evol. 8:veab106. [PubMed](#)
12. Li Q, *et al.* 2021. Cell. . [PubMed](#)
13. Dietmar Herndler-Brandstetter *et al.* 2018. Immunity. 48(4):716-729 . [PubMed](#)
14. Palma-Barqueros V, *et al.* 2020. Am J Hematol. . [PubMed](#)
15. Sabatino JJ, *et al.* 2022. JCI Insight. 7:. [PubMed](#)
16. Golec E, *et al.* 2019. FASEB J. 33:12425. [PubMed](#)
17. Tong P, *et al.* 2021. Cell. .: [PubMed](#)
18. Shlamkovich T, *et al.* 2020. BMC Biology. 16(1):92. [PubMed](#)
19. Bo Q, *et al.* 2022. Cell Discov. 8:47. [PubMed](#)
20. Csizmar CM, *et al.* 2018. Bioconjug Chem. 29:1291. [PubMed](#)
21. Shao Z, *et al.* 2022. Nat Chem Biol. 18:264. [PubMed](#)
22. Okamoto Y, *et al.* 2021. J Cell Sci. 134:. [PubMed](#)
23. Chen Y, *et al.* 2020. Cell. 1496:183. [PubMed](#)
24. Reuschi AK, *et al.* 2022. Cell Rep. 39:110650. [PubMed](#)
25. Navare AT, *et al.* 2020. bioRxiv. . [PubMed](#)
26. Lotta LA *et al.* 2019. Cell. 177(3):597-607 . [PubMed](#)

RRID AB_2563147 (BioLegend Cat. No. 637309)
 AB_2563148 (BioLegend Cat. No. 637310)

Antigen Details

Biology Area	Cell Biology
Antigen References	1. Einhauer A. 2001. <i>J. Biochem. Biophys. Methods.</i> 49:455. 2. Knappik A and Pluckthun A. 1994. <i>Biotechniques.</i> 17:754.
Gene ID	NA

Related Protocols

[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

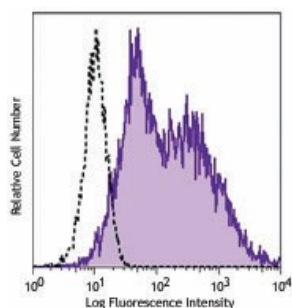
[Cell Surface Flow Cytometry Staining Protocol](#)

[Intracellular 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



F-SIK2-FLAG transfected HEK293 cells were fixed and permeabilized with Fixation Buffer (Cat. No. 420801) and Permeabilization Wash Buffer (Cat. No. 421002), then stained with anti-DYKDDDDK (clone L5) PE (filled histogram) or rat IgG2a, κ PE isotype control (open histogram).

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