Alexa Fluor® 488 anti-DYKDDDDK Tag Antibody

Catalog# / Size	637317 / 25 µg 637318 / 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 Alexa Fluor® 488 under optimal conditions.
Concentration	0.5 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	ICC - *Quality tested*
Recommended Usage	Each lot of this antibody is quality control tested by immunocytochemistry. For immunocytochemistry, a concentration range of 0.5 - 2.0 µg/ml (1:250 - 1:1000 dilution) is recommended. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Blue Laser (488 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 **(PubMed link indicates BioLegend citation)**	1. Park SH, *et al.* 2008. *J Immunol Methods.* 331:27. 2. Moon SH, *et al.* 2010. *J. Biol Chem.* 285:12935. PubMed 3. Sasaki M, *et al.* 2011. *J. Biol Chem.* 286:39370. PubMed 4. Sonder SU, *et al.* 2012. *J Immunol.* 188:5906. PubMed 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. Wang J, *et al.* 2022. Front Immunol. 13:863346. PubMed

2. Jayasinghe MK, *et al.* 2022. Theranostics. 12:3288. PubMed
3. Martin-Sancho L, *et al.* 2021. Mol Cell. 81:2656. PubMed
4. Martin-Sancho L, *et al.* 2020. bioRxiv. . PubMed
5. Gallo E, *et al.* 2020. MAbs. 12:1717265. PubMed

RRID

AB_2728470 (BioLegend Cat. No. 637317)
AB_2810690 (BioLegend Cat. No. 637318)

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

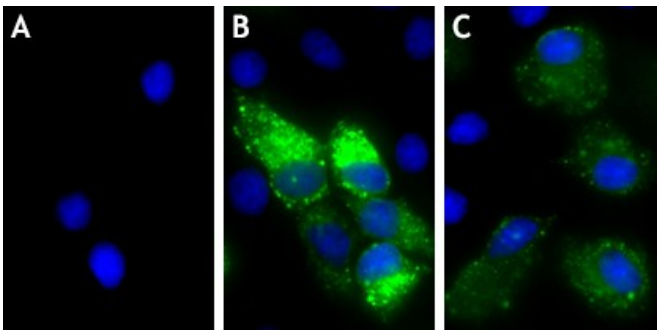
Related Protocols

Immunocytochemistry 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



HeLa cells non-transfected (A) or transfected with DYKDDDDK Tag fused protein (B and C) were fixed with 4% paraformaldehyde (PFA) for 10 minutes, permeabilized with 0.5% Triton X-100 for 3 minutes, and blocked with 5% FBS for 60 minutes. Then the cells were intracellularly stained overnight at 4 degrees with 1: 250 diluted (2 µg/ml, Figure A and B) and 1: 1000 diluted (0.5 µg/ml) Alexa Fluor® 488 anti-DYKDDDDK Tag (Figure C, green). Nuclei were counterstained with DAPI (blue). The image was captured with a 40X objective.

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