

Brilliant Violet 421™ anti-DYKDDDDK Tag

Catalog # / 3786610 / 100 µg
Size: 3786605 / 25 µg

Clone: L5

Isotype: Rat IgG2a, λ

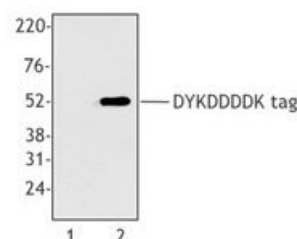
Immunogen: DYKDDDDK-tagged mouse Langerin

Reactivity: Epitope tag

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: 0.5

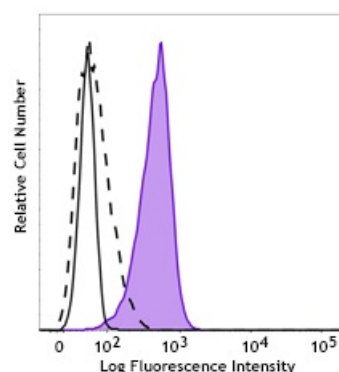


Cell extracts from untransfected 293T cells (lane 1) or 293T cells transfected with a plasmid encoding DYKDDDDK-tagged protein (lane 2), using anti-DYKDDDDK, clone L5.

Applications:

Applications: Flow Cytometry

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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



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.

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HeLa cells (positive cell line, filled histogram) and Hep G2 cells (low-expressing cell line, open histogram) were fixed with Fixation Buffer (Cat. No. 420801) and permeabilized with True-Phos™ Perm Buffer (Cat. No. 425401) and intracellularly stained with Purified anti-TFAP2A (clone W20235D) or Purified rat IgG2a, κ isotype control (open histogram, dashed line) (Cat No. 400502) followed by Alexa Fluor® 647 Goat anti-rat IgG (Cat. No. 405416)

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:

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](#)

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.

Antigen References:

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