abcam

ab25205

PE Anti-KLRG1 antibody [2F1]

Anti-KLRG1 antibody [2F1] conjugated to PE - suitable for flow cytometry, and reacts with mouse samples. Clone [2F1] is a Golden Hamster monoclonal antibody and one of the most commonly used clones for flow cytometry.

Design your panel with our interactive flow cytometry panel builder. Click here.

Key facts

Isotype	IgG
Host species	Syrian hamster
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: 0.87% Sodium chloride, 0.14% Sodium dihydrogen phosphate, 0.1% Gelatin
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing Klrg1 protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	2F1
Purification technique	Affinity purification
Concentration	0.2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information Klrg1

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze, Store undiluted

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	KLRG1 also known as killer cell lectin-like receptor G1 is a protein with a mass of about 30 kDa. It functions mechanically as an inhibitory receptor on natural killer (NK) cells and subsets of T cells. KLRG1 binds to classical cadherins like E-cadherin and N-cadherin modulating immune cell activity. Expression of KLRG1 is found mainly on mature NK cells and activated T cells particularly on those with an effector memory phenotype. Detecting KLRG1 expression often involves flow cytometry techniques using specific anti-KLRG1 antibodies.
Biological function summary	KLRG1 serves as a modulator of immune responses by delivering inhibitory signals that regulate immune cell cytotoxicity and cytokine production. It is not part of a larger protein complex but interacts with other molecules on the cell surface to perform its role. The engagement of its ligands mediates the reduction of immune responses which is important during chronic infections and cancer to prevent excessive immune activation.
Pathways	Several immune regulatory pathways involve KLRG1. It notably participates in the balance between immune activation and inhibition within the immune system. KLRG1 interacts with signaling pathways such as those regulated by T-cell receptor (TCR) signaling and NK cell activation. Related proteins in these pathways include CD226 and NKG2A which also play a role in determining the immune cell response.

Associated diseases and disorders	KLRG1 has relevance in chronic infections and cancer due to its role in regulating immune cell activity. In chronic viral infections such as HIV and hepatitis KLRG1 expression is upregulated coinciding with T cell exhaustion. This marker is also significant in cancer where it contributes to the immune evasion mechanisms of tumors. The association with other proteins like PD-1 and TIM-3 further highlights KLRG1's function in these contexts serving as potential targets for therapeutic intervention.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

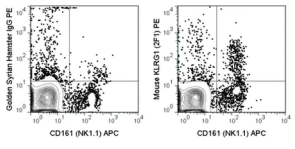
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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1 product image



Flow Cytometry - PE Anti-KLRG1 antibody [2F1] (ab25205)

KLRG1 Flow Cytometry staining of C57BL/6 murine splenocytes using syrian hamster Anti-KLRG1 antibody

C57Bl/6 splenocytes were stained with APC Anti-Mouse NK1.1 and 0.25 ug PE Anti-Mouse KLRG1 (ab25205) (right panel) or 0.25 ug PE Golden Syrian Hamster IgG Isotype Control (left panel).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.