

Product Datasheet

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Anti-Mouse Ly-6G Purified Monoclonal Antibody

Product Information

Product No.: L279
Clone: 1A8
RRID: AB_2831190
Isotype: Rat IgG2a
Storage: Sterile 2-8°C

Product Description

Specificity

Clone 1A8 recognizes an epitope on mouse Ly6G. Clone 1A8 does not cross react with Ly6C.

Antigen Distribution

Ly6G is expressed by neutrophils.

Background

Ly6G antibody, clone 1A8, recognizes lymphocyte antigen 6 complex locus G6D (Ly6G; also called Gr-1), a 21-25 kDa glycosylphosphatidylinositol (GPI)-anchored protein¹. Ly6G belongs to the lymphocyte antigen-6 (Ly6)/urokinase-type plasminogen activator receptor (uPAR) superfamily, characterized by a Ly6/uPAR (LU) domain-containing a three-fingered structural motif stabilized by disulfide bonds². Ly6G is expressed by murine neutrophils regardless of location and activation^{1,4,5}. Eosinophils may also express low levels of Ly6G⁵. There is no human ortholog for Ly6G; however, a structurally related L76/uPAR protein, CD177 (also known as HNA-2a, NB1, or PRV-1) is expressed in human neutrophils and is implicated in neutropenia⁶. Although the exact function and ligand of Ly6G remain unknown, Ly6G ligation may impair neutrophil migration to sites of inflammation via a β 2-integrin-dependent mechanism⁷.

Known Reactivity Species

Mouse

Format

Purified

Immunogen

Ly-6G-transfected EL4J Cell Line

Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

Storage and Stability

This purified antibody is stable when stored at 2-8°C. **Do not freeze.**

Country of Origin

USA

References

1. Fleming TJ, et al. (1993) J Immunol. 151(5):2399-408
2. Tsetlin VI. (2015) Trends Pharmacol Sci. 36(2):109-23
3. Daley JM, et al. (2008) J Leukoc Biol. 83(1):64-70
4. Lee PY, et al. (2013) J Leukoc Biol. 94(4):585-594

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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