SONY

# Product Data Sheet

## APC/Fire™ 750 anti-mouse I-Ab

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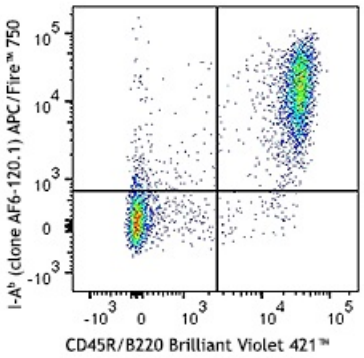
| **Catalog # / Size:** | 1182120 / 100 µg<br>1182115 / 25 µg |
| **Clone:** | AF6-120.1 |
| **Isotype:** | Mouse IgG2a, κ |
| **Immunogen:** | C57BL/10J splenocytes |
| **Reactivity:** | Mouse, Other |
| **Preparation:** | The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions. |
| **Formulation:** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| **Workshop Number:** | 750 under optimal conditions. |
| **Concentration:** | 0.2 mg/ml |




C57BL/6 mouse splenocytes were stained with Brilliant Violet 421™ anti-mouse/human CD45R/B220 (clone AF6-120.1) and APC/Fire™ 750 anti-mouse I-Ab Antibody (top), or APC/Fire™ 750 Mouse IgG2a, κ Isotype Ctrl Antibody (bottom).

## Applications:

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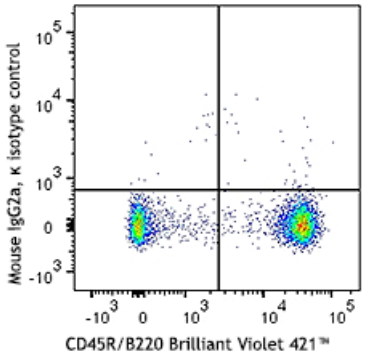
| **Applications:** | Flow Cytometry |
| **Recommended Usage:** | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm. |
| **Application Notes:** | Additional reported applications (for relevant formats of this clone) include: immunohistochemical staining of frozen sections (acetone-fixed[5]; OCT-embedded, ethanol-fixed sections[7]), immunofluorescence microscopy[3] (including acetone-fixed epidermal sheets[6]), immunoprecipitation[7,8]. Directly conjugated antibody was used for IF in (3) and (6) and for IHC in (5).<br><br>Does not react with other haplotypes (*e.g.,* d, f, q, r, s). |

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**Application References:**

1. Wall KA, *et al.* 1983. *J. Immunol.* 131:1056. (FC)
2. Cohn LE, *et al.* 1986. *P. Natl. Acad. Sci. USA* 83:747. (FC)
3. Inaba K, *et al.* 1998. *J. Exp. Med.* 188:2163 (IF)
4. Hamrah P, *et al.* 2002. *Invest Opthalmol Vis. Sci.* 43:639 (IF)
5. Buono C, *et al.* 2003. *Arterioscler. Thromb. Vasc. Biol.* 23:454. (IHC)
6. Wang Z, *et al.* 2004. *J. Immunol.* 172:5924. (IHC IF)
7. Nakagawa TY, *et al.* 1999. *Immunity* 10:207. (IP)
8. Podolin PL, *et al.* 2008. *J. Immunol.* 180:7989. (FC IP) PubMed
9. Schneppenheim J, *et al.* 2013. *J Exp Med.* 210:41. PubMed.

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**Description:** The AF6-120.1 antibody reacts with the I-$A^b$ MHC class II alloantigen. These class II molecules are expressed on antigen presenting cells (including B cells) and a subset of T cells from H-$2^b$ bearing mice, and are involved in antigen presentation to T cells expressing CD3/TCR and CD4 proteins. The AF6-120.1 antibody cross-reacts with H-$2^k$ and H-$2^u$ haplotypes; this antibody does not cross-react with other haplotypes (d, f, q, r, s).

**Antigen References:**

1. Watts C. 1997. *Annu. Rev. Immunol.* 15:821.
2. Pamer E, *et al.* 1998. *Annu. Rev. Immunol.* 16:323.

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