SONY

# Product Data Sheet

## APC/Fire™ 750 anti-human CD30

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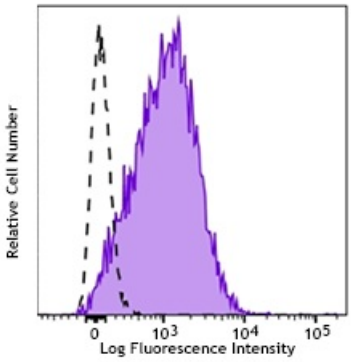
| **Catalog # / Size:** | 2269575 / 25 tests<br>2269580 / 100 tests |
| **Clone:** | BY88 |
| **Isotype:** | Mouse IgG1, κ |
| **Immunogen:** | Recombinant human CD30 boosted with THP-1 cell line |
| **Reactivity:** | Human |
| **Preparation:** | The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions. |
| **Formulation:** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA). |
| **Workshop Number:** | V BP173 |
| **Concentration:** | Lot-specific |




HuT-78 cells (Human T lymphoma cell line) were stained with CD30 (clone BY88) APC/Fire™ 750 (filled histogram) or mouse IgG1 κ APC/Fire™ 750 isotype control (open histogram).

## 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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.<br><br>* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm. |
| **Application Notes:** | Additional reported application: in combination with IL-2 and PMA to induce T cell clone proliferation. |
| **Application References:** | 1. Leca G, *et al.* 1994. *Cell. Immunol.* 156:230. |

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| **Description:** | CD30, also known as Ki-1 antigen, lymphoid activation antigen CD30, and tumor necrosis factor receptor superfamily member 8 is a type I transmembrane receptor that contains four TNF receptor domains with an approximate molecular weight of 64 kD. CD30 is highly expressed on Hodgkins and Reed-Sternberg cells as well as activated, but not resting, T and B cells. CD30 has been shown to interact with a number of proteins including TRAF1, TRAF2, TRAF3, TRAF5, NPM-ALK, TRAF-interacting protein, and CD30 ligand (CD153). Signaling through CD30 is thought to limit the proliferative potential of autoreactive CD8 effector T cells and protect against autoimmunity. |
| **Antigen References:** | 1. Durkop H, *et al.* 1992. *Cell* 68:421.<br>2. Aizawa S, *et al.* 1997. *J. Biol. Chem.* 272:2042.<br>3. Stein H, *et al.* 1982. *Int. J. Cancer* 30:445. |


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