

Product datasheet for TA386248

Ms4a1 Mouse Monoclonal Antibody [Clone ID: 18B12]

Product data:

Product Type: Primary Antibodies

Clone Name: 18B12

Applications: FC, FN, IF, WB

Reactivity: Mouse Host: Mouse

Isotype: IgG1, kappa
Clonality: Monoclonal

Immunogen: This antibody was generated by immunizing CD20-/- mice with CD20-transfected cell lines

(300.18 and 70Z3) and CD20-peptide-keyhole limpet hemocyanin conjugate.

Specificity: This antibody is specific for murine CD20, which is a cell surface 33-37 (depending on the

shed from the plasma membrane following mAb treatment.

degree of phosphorylation) kDa non-glycosylated surface phosphoprotein expressed on mature and most malignant B cells, but not stem cells or plasma cells. Low number of the CD20 has been also detected on a subpopulation of T lymphocytes and it can be expressed on follicular dendritic cells. Its expression on B cells is synchronous with the expression of surface IgM. CD20 regulates transmembrane calcium conductance (probably functioning as a component of store-operated calcium channel), cell cycle progression and B-cell proliferation. CD20 serves as a useful target for antibody-mediated therapeutic depletion of B cells, as it is expressed at high levels on most B-cell malignancies, but does not become internalized or

In the original publication, this antibody was used in FACS and in vivo functional assays to examine how B cell depletion affects autoimmunity (Ahuja et al., 2007). In other studies, this antibody has been used mainly in FACS, immunofluorescence, and various in vitro and in vivo functional experiments. More recent works employing this antibody have shown, for instance, that enhanced phagocytosis of circulating B cells by Kupffer cells represents an important in vivo mechanism for improved activity of glycoengineered anti-CD20 mAbs (Grandjean et al., 2016), that B lymphocytes limit senescence-driven fibrosis resolution and

favor hepatocarcinogenesis in mouse liver injury (Faggioli et al., 2017), and that B cells inhibit the antitumor immunity against an established murine fibrosarcoma (Maglioco et al., 2017).

Formulation: PBS with 0.02% Proclin 300.



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Concentration: lot specific

Conjugation: Unconjugated

Storage: Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid

freeze and thaw cycles.

Stability: 3 years from dispatch.

Gene Name: membrane-spanning 4-domains, subfamily A, member 1

Database Link: Entrez Gene 12482 Mouse

P19437

Synonyms: B1; Bp35; CD20; LEU-16; MGC3969; MS4A2; S7