Anti-CD172A/SIRPA [OX-41] Bulk Size Ab00553-8.4-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG2b, Fc Silent™, Kappa
Clone Number: OX-41
Alternative Name(s) of Target: SIRPA; BIT; MFR; MYD-1; MYD1; P84; PTPNS1; SHPS1; SIRP; Signal-regulatory protein alpha; signal regulatory protein alpha; OX41; MRC OX-41; MRC OX 41
UniProt Accession Number of Target Protein: P97710
Published Application(s): functional, IP, WB, ELISA, IF, IHC
Published Species Reactivity: Rat
Immunogen: Rat resident peritoneal cells injected into BALB/c mice.
Specificity: This antibody binds to rat SIRP alpha, which is selectively expressed by myeloid and neuronal cells.
Application Notes: This antibody binds to SIRP alpha, and can consequently be used to label neuronal cells and myeloid cells, namely macrophages, monocytes, granulocutes and dendritic cells, in immunofluorescence and immunohistochemical studies (Robinson, 1986). Anti-SIRP ligation induces nitric oxide synthesis and oxidative burst in macrophages (Adams, 1998).
Antibody First Published in: Robinson et al. Macrophage heterogeneity in the rat as delineated by two monoclonal antibodies MRC OX-41 and MRC OX-42, the latter recognizing complement receptor type 3. Immunology 1986 57 239-247 PMID:3512425
Note on publication: Describes the original use of this antibody to detect SIRP alpha in labelling, immunoperoxidase and immunofluorescence studies to investigate macrophage heterogeneity.

Product Form

Size: 1 mg Purified antibody in bulk size.
Purification: Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4^{o}C for up to 3 months. Note, this antibody is provided without

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added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

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