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# Product datasheet for SM259PS

## Cd8a Mouse Monoclonal Antibody [Clone ID: OX-8]

### Product data:

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|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | OX-8 |
| **Applications:** | FC, IHC, IP, WB |
| **Recommended Dilution:** | **Flow Cytometry**: 1/100; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl.<br>**Immunohistochemistry on Frozen and Paraffin Sections:** This product does not require protein digestion pre-treatment of paraffin embedded sections; This product does not require antigen retrieval using heat treatment prior to staining of paraffin embedded sections.<br>**Immunoprecipitation.** |
| **Reactivity:** | Rat |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Rat thymocyte membrane glycoproteins. Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line. |
| **Specificity:** | This antibody recognises the CD8 alpha cell surface antigen, expressed by a subset of T lymphocytes, most thymocytes and the majority of NK cells. Clone MRC OX-8 is suitable for use in in vitro blocking studies. We recommend the use of SM259A for this purpose. This clone has been described reacting with paraffin-embedded material following PLP Fixation (periodatelysine paraformaldehyde) |
| **Formulation:** | PBS, pH 7.2<br>State: Purified<br>State: Liquid purified IgG fraction from tissue culture supernatant<br>Preservative: 0.09% Sodium Azide |
| **Concentration:** | lot specific |
| **Purification:** | Affinity Chromatography on Protein G |
| **Conjugation:** | Unconjugated |

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| **Storage:** | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |
| **Gene Name:** | CD8a molecule |
| **Database Link:** | Entrez Gene 24930 Rat<br>P07725 |
| **Background:** | The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell to cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. |
| **Synonyms:** | CD8 alpha chain, CD8A, MAL |

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