# CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

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|---|---|---|---|
| **Product name** | CD68, Rat, clone ED1 | | |
| **Catalog number** | HM3029-20UG | | |
| **Lot number** | - | **Expiry date** | - |
| **Volume** | 200 µl | **Amount** | 20 µg |
| **Formulation** | 0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3 | **Concentration** | 100 µg/ml |
| **Host Species** | Mouse IgG1 | **Conjugate** | None |
| **Endotoxin** | N.A. | **Purification** | Protein G |
| **Storage** | 4°C | | |

## Application notes

| | IHC-F | IHC-P | IF | FC | FS | IA | IP | W |
|---|---|---|---|---|---|---|---|---|
| Reference # | | | | | | | | |
| Yes | ● | ● | | ● | | | ● | ● |
| No | | | | | | | | |
| N.D. | | | ● | | ● | ● | | |

*N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot*

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IHC-P: For paraffin sections protein digestion (e.g. trypsin or pronase) is required.

## General Information

**Description**

The monoclonal antibody ED1 recognizes a single chain heavily glycosylated protein of 90-110 kD (depending on the cell type as antigen source) that is expressed on the lysosomal membrane of phagocytes as well as on the cell surface (weak expression). This antigen is the rat homologue of human CD68. The expression of this antigen in cells increases during phagocytic activity. The antigen is expressed by the majority of tissue macrophages and weakly by peripheral blood granulocytes. This makes the monoclonal antibody ED1 a useful marker for rat macrophages. The monoclonal antibody ED1 is not able to block latex phagocytosis or bacterial killing.

**References**


1. Damoiseaux, J et al; Rat macrophage lysosomal membrane antigen recognized by monoclonal antibody ED1. Immunology 1994, *83*: 140
2. Dijkstra, C et al; The heterogeneity of mononuclear phagocytes in lymphoid organs: distinct macrophage subpopulations in the rat recognized by monoclonal antibodies ED1, ED2 and ED3. Immunology 1985, *54*:589
3. Bauer, J et al; Phagocytic activity of macrophages and microglial cells during the course of acute and chronic relapsing experimental autoimmune encephalomyelitis. J Neurosci Res 1994, *38*: 365
4. Bao, F et al; Early anti-inflammatory treatment reduces lipid peroxidation and protein nitration after spinal cord injury in rats. J Neurochem 2004, *88*: 1335


**Storage&stability**

Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

**cautions**

For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Brenda Teunissen

Date
11/01/2021

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.