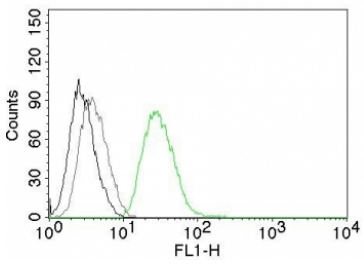
ODC-1 Antibody / Ornithine Decarboxylase [clone ODC1/485] (V2215CF488)

Catalog No.	Formulation	Size
V2215CF488-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	CF488 Conjugate
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ODC1/485
Purity	Protein G affinity chromatography
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-3ug/ml
Limitations	This ODC-1 antibody is available for research use only.



Flow analysis of permeablized PC3 cells using ODC-1 antibody (clone ODC1/485, green), isotype control (gray) and no primary antibody (black).

Description

ODC-1 antibody CF488 conjugate clone ODC1/485 combines the specificity of clone ODC1/485 with direct conjugation to CF488, a bright green fluorescent dye known for stability and high signal intensity. This format enables direct detection of ornithine decarboxylase 1 in fluorescence based experiments without requiring secondary antibodies. NSJ Bioreagents provides this CF488 conjugated antibody for efficient, reliable visualization of ODC-1 in research focused on cell growth, tumor biology, and metabolic regulation.

ODC-1 antibody CF488 conjugate clone ODC1/485 is widely applied in cancer research, where it detects elevated ODC-1 expression in rapidly dividing tumor cells. By highlighting cytoplasmic ODC-1, the antibody supports investigations into how polyamine metabolism drives tumor progression and survival. It is also used to evaluate the effectiveness of therapeutic interventions designed to inhibit ODC-1 activity, such as small molecule inhibitors.

In developmental biology, this conjugated antibody is useful for tracking ODC-1 expression patterns during embryogenesis and tissue differentiation. Polyamine synthesis is critical for early growth, and clone ODC1/485 provides clear visualization of cells actively producing polyamines. The green fluorescence produced by CF488 makes it particularly valuable in multicolor imaging and flow based assays.

ODC-1 antibody CF488 conjugate clone ODC1/485 also has applications in immunology and metabolic studies. Researchers have used it to analyze how metabolic reprogramming of immune cells involves ODC-1, influencing inflammatory responses and immune regulation. The ability to incorporate this antibody into multicolor panels provides flexibility for complex experimental designs.

Technically, the CF488 dye provides excellent brightness and photostability, ensuring reliable performance in imaging and cytometry. Direct conjugation reduces assay time while maintaining specificity and sensitivity. Alternate names include ornithine decarboxylase antibody CF488, polyamine synthesis enzyme ODC antibody CF488, and growth regulation enzyme ODC-1 antibody CF488.

Application Notes

Optimal dilution of the ODC-1 antibody should be determined by the researcher.

Immunogen

Recombinant human ODC-1 protein was used as the immunogen for this antibody.

Storage

Store the ODC-1 antibody at 2-8oC, protected from light.