CD163 (Monocyte & Macrophage Marker) Antibody

Mouse Monoclonal Antibody [Clone MSVA-163M]

Catalog No	Format	Size
9332-MSM16-P0	Purified Ab with BSA and Azide	20 ug
9332-MSM16-P1	Purified Ab with BSA and Azide	100 ug

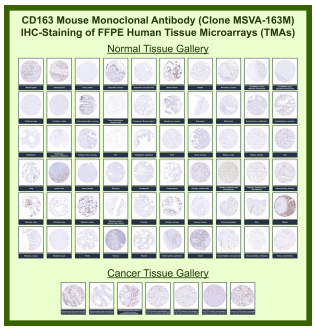
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1:100-1:200	Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Product Details

Clone	MSVA-163M
Immunogen	Recombinant fragment of human CD163 protein (around aa 43-196) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	140kDa
Cellular Localization	Cytoplasm, Nuclear pore complex, Nucleus, Perinuclear region
Species Reactivity	Human
Positive Control	A moderate to strong cytoplasmic staining of macrophages should be seen in the interfollicular zones of the tonsil, lamina propria of the appendix and in the Kupffer cells of the liver (see images). Macrophages surrounding the vessels in brain specimens should stain positive, while microglial cells should not show CD163 staining.

**Optimal dilution for a specific application should be determined.*

Product Images for CD163 (Monocyte & Macrophage Marker) Antibody



CD163 Mouse Monoclonal Antibody (MSVA-163M) tested on many normal and cancer tissues. The immunohistochemistry staining in these tissues aligns with the expression data in Human Protein Atlas.

Specificity & Comments

This MAb recognizes a protein of 140kDa, identified as CD163. It has been identified as an acute phase-regulated transmembrane protein whose function is to mediate the endocytosis of haptoglobin-hemoglobin complexes. This receptor is expressed on the surface of monocytes with low expression and on tissue macrophages, histiocytes with high expression. Staining with anti-CD163 has been helpful to distinguish synovial macrophages from synovial intimal fibroblasts in rheumatoid arthritis, where its specificity for macrophages was found to be superior to that of anti-CD68. Increased levels of CD163 were also detected in patients with microbial infections and myelomonocytic leukemias. Anti-CD163 is of considerable value for selective identification of monocytes and macrophages at a certain stage of differentiation and is suitable for diagnosing myelomonocytic or monocytic leukaemia and neoplasms of true histiocytic origin. CD163 is positive in skin (histiocytes), gut, Kupffer cells, a few alveolar macrophages, macrophages in the placenta, and in macrophages in inflamed tissues including tumor tissue.

Supplied As

Ab produced in HEK293 cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Dendritic Cell Marker, Hematopoietic Stem Cells, Infectious Disease

Limitations and Warranty