



| | | | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------|
| Catalog Number: | MO20005 | Host: | Mouse |
| Ig Class: | IgG _{1, kappa} | Species Reactivity: | Human |
| Immunogen Sequence: | Prokaryotic recombinant fusion protein corresponding to the full external domain of the human CD1a molecule. | Format: | Liquid-tissue culture supernatant containing 15mM sodium azide. Concentration: 30 mg/L |
| Applications: | Immunohistochemistry -1:15-1:30 (Paraffin-embedded tissue) High temperature antigen retrieval using 0.01M citrate retrieval solution (pH 6.0) is recommended. Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. | | |
| Storage: | Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. <i>Avoid repeated freeze-thaw cycles.</i> | | |

Application Notes

Immunohistochemistry

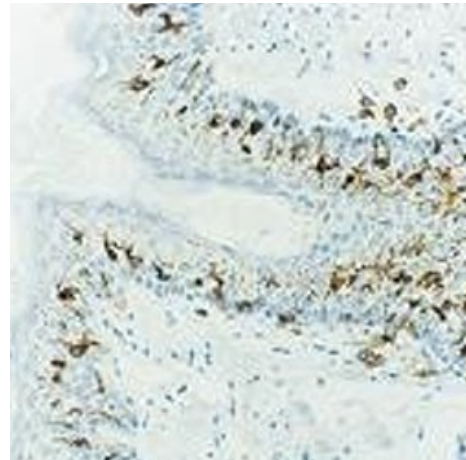
Positive staining can be observed in senile plaque cores, plaque periphery and diffuse plaques. In some cases staining can be observed in vessel walls and in extracellular neurofibrillary tangles.

Paraffin embedded Tissue Preparation- immerse sections in 3% W/V methanol/hydrogen peroxide for 10 minutes, incubate in 98-100% formic acid for 3 minutes and then immediately rinse in distilled water.

Description/Data:

CD1a is a protein of 43 to 49kD expressed on dendritic cells and cortical thymocytes. CD1a antigen expression has been shown to be useful in differentiating Langerhans cells, powerful antigen presenting cells present in skin and epithelia, from interdigitating cells. Immunohistochemical studies for CD1a antigen have reported a reduction in epidermal Langerhans cells in graft versus host disease and the participation of CD1a antigen-positive dendritic cells in atherosclerotic lesion formation and asthmatic inflammation. Clone MTB1 detects cortical thymocytes, Langerhans cells in epidermis, interdigitating cells of dermis and interdigitating cells of stratified squamous epithelium of tonsil. Clone MTB1 may also detect small focal groups of lymphocytes outside the germinal centers of tonsil indicating a cross-reaction with CD1b antigen.

Image: CD1a (clone MT1B) staining of paraffin embedded human skin tissue (normal). Note intense membrane staining of Langerhans cells.



FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. -V2/08/2012