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Product datasheet for TA363834

CD177 Mouse Monoclonal Antibody [Clone ID: MEM-166]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-166
Applications:	IHC
Recommended Dilution:	Tested for immunohistochemistry (IHC); has been described to work in FACS, immunoprecipitation and Western Blot. Approximate working dilution for IHC: Frozen sections: 0.25µg/ml 1:800) Paraffin sections: not reactive on routinely processed samples. Optimal dilutions should be determined by the end user. Suggested positive control: Human placenta
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human granulocytes
Specificity:	Human: CD177 Other: non-human primates. **Epitope**: The antigen is CD177. The epitope has not been further characterized. **Distribution**: Isolated cells: 56-64% of neutrophils express the antigen. Tissue sections: Highly expressed on neutrophils in most tissues.
Formulation:	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA), and 0.09% sodium azide as a preservative.
Concentration:	N/A
Conjugation:	Unconjugated
Storage:	Original vial: 1 year at 4° - 8°C. Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Gene Name:	CD177 molecule
Database Link:	Entrez Gene 57126 Human Q8N6Q3

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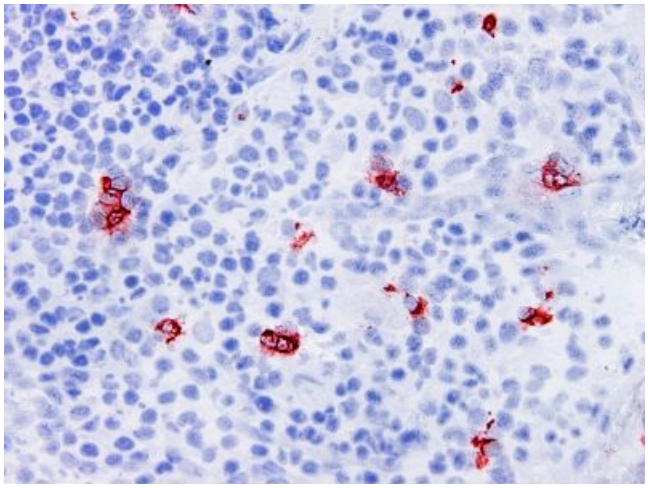
Background: Monoclonal antibody MEM-166 recognizes the CD177 antigen, a 58-64kDa glycosyl-phosphatidylinositol (GPI) anchored plasma membrane glycoprotein that is also expressed on secondary granules. CD177 is also known as neutrophil-specific antigen NB1 and human neutrophil antigen HNA-2a. CD177 is expressed on neutrophils and neutrophilic metamyelocytes, and myelocytes from 89 to 97 per cent of healthy individuals. The expression of CD177 is upregulated on granulocytes stimulated with the chemotactic peptide f-met-leu-phe. The function of CD177 is under investigation, and there is evidence that CD177 is a heterophilic binding partner of platelet endothelial cell adhesion molecule-1 PECAM-1 (CD31). This interaction may constitute a pathway involved in neutrophil transmigration. CD177 is unique in that it is expressed on subpopulations of neutrophils, altogether on approximately 60% of neutrophils.

Synonyms: HNA-2a; HNA2A; NB1; PRV-1; PRV1

Product images:



TA363834, Clone MEM-166, human tonsil, frozen section