EPITOMICS
an abcam company

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IVD DATA SHEET

A-1-Antichymotrypsin

Concentrated Rabbit Monoclonal Antibody

Intended Use:
For in Vitro Diagnostic Use

Epitomics' Rabbit Monoclonal Anti-Human Alpha 1-Antichymotrypsin, Clone EP384, is intended for use to qualitatively identify Alpha 1-Antichymotrypsin by light microscopy in sections of formalin-fixed, paraffin-embedded tissue using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient's clinical history and other diagnostic tests. Evaluation must be performed by a qualified pathologist.

Catalog number	Description	Dilution
AC-0347A	0.1 ml, concentrated	1:100-1:200
AC-0347B	0.5 ml, concentrated	1:100-1:200
AC-0347	1 ml, concentrated	1:100-1:200
AC-0347BULK	2 ml or more, concentrated	1:100-1:200

Immunogen: A synthetic peptide corresponding to residues of human Alpha 1-Antichymotrypsin protein
Source: Rabbit Monoclonal Antibody
Clone ID: EP384
Isotype: Rabbit IgG
Application: Immunohistochemistry for formalin-fixed paraffin-embedded tissue

Summary and Explanation:
Alpha 1-Antichymotrypsin is an acute phase glycoprotein that functions by inhibiting proteases secreted by neutrophils and mast cells during periods of inflammation. It is primarily produced by hepatocytes and locally expressed in histiocytes, including macrophages and Kupffer cells in the liver.

Alpha 1-Antichymotrypsin is a useful marker for malignant fibrous histiocytomas to aid in differentiating from other soft-tissue tumors such as liposarcomas or Ewing's sarcoma.

Reagent Provided:
Antibody to Alpha 1-Antichymotrypsin is affinity purified and diluted in 10 mM phosphate buffered saline (PBS), pH 7.2 containing 1% bovine serum albumin (BSA) and 0.09% sodium azide (NaN_3).

Storage and Stability:
Store at 2-8 °C. Don't use after expiration date provided on the vial. End user must validate any storage conditions other than those specified.

Procedures Recommended:
1. Pretreatment: Epitope retrieval using Tris/EDTA buffer (catalog #: SP-0004) with a pressure cooker.
2. Endogenous peroxidase block: Block for 10 minutes at room temperature using peroxidase solution (catalog #: SP-0002).
3. Protein block: Block for 10 minutes at room temperature using blocking solution (catalog #: SP-0003).
4. Primary antibody: Incubate for 30 minutes.
5. Detection: Follow instructions from the selected detection system (EpiPrecision™, a Biotin Streptavitin-HRP Detection, catalog #: DK-0001, 0003, or EpiVision™, a Rabbit Polymer Detection, catalog # DK-0002, 0004).

The antibody dilution and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory.

Performance Characteristics:
This antibody gives cytoplasm staining in positive cells. The recommended positive controls are liver for normal tissue and malignant fibrous histiocytoma for abnormal tissue.

Limitations:
Immunohistochemistry is a complex process. Variation in tissue selection, tissue processing, antigen retrieval, peroxidase activity, detection systems and improper counterstaining may cause variation in results.

References:
1. Park CI, *et al.: Yonsei Med J.* 1988;29(1):11-6.
2. Roholl PJ, *et al.: Am J Pathol.* 1985;121(2):269-74.
3. Salisbury JR, *et al.: Postgrad Med J.* 1989;65(770):872-4.
4. Strauchen JA, *et al.: Am J Pathol.* 1986;124(2):303-9.

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