English

Mouse Anti-Human Actinin Alpha 4 Monoclonal Antibody (Anti-ACTN4 mAb)

Catalog ID: DH0003

For in Vitro Diagnostic Use (IVD): USA, EU and Taiwan

For Research Use Only (RUO): Other countries

For Professional Users

Intended Use

Mouse Anti-Human Actinin, Alpha 4, clone 13G9 is intended for the semi-quantitative detection of Actinin, Alpha 4 protein in paraffin sections. The clinical interpretation of any positive staining or its absence should be complemented by morphological studies and histology studies with proper controls. Evaluations should be made within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

Principles of Procedure

Immunohistochemical(IHC) staining techniques allow for visualization of tissue constituents localization under microscope through a two step process including antigen-primary antibody interactions and the detection of bound antibody by a chromogen.

Reagent Provided

1. 100 ug of monoclonal mouse antibody, clone 13G9, to Actinin Alpha 4, diluted in 1X PBS, pH 7.2.

Reagent Required but Not Provided

1. Blocking solution or Antibody Diluent (DAKO, Cat # S3022)
2. Immunodetection Kit- EnVision Detection Kit, Peroxidase/DAB,Rabbit/Mouse (DAKO, Cat # K5007)

Users are advised to use the reagents recommended by Abnova, otherwise the expected results may not be achievable.

Isotype

IgG2b

Immunogen

peptide, 'NQSYQYGPSSAGNGA'.

Specificity

Human Actinin, Alpha 4

Antibody Concentration

Refer to vial label for batch specific Ig concentration.

Recommendation on Working Condition

Suggest primary antibody concentration: 1.5ug/ml overnight at 4°C, and do not re-use. Heat mediated antigen retrieval using 0.01M citrate retrival solution (pH 6.0) is recommended. These are guidelines only and the users should determine their own

optimal condition.

Storage and Stability

Please refer to vial label for expiration date and store at -20°C. Do aliquot to avoid repeated freezing and thawing. Do not mix different lot of antibody into one and not use after expiration date. Storage condition other than those specified in the package insert, they must be verified by the user.

Specimen Preparation

Tissues specimens preserved for IHC staining by formalin fixation.

Staining interpretation

The cellular staining pattern for anti-Human Actinin, Alpha 4 is cytoplasm or nucleus.

Staining Procedure

The following protocol is used in ABNOVA. Customer can refer to the protocol from the detection system selected.

Deparaffinize sections and rehydrate using 1X PBS

Pre-treat the sample with the following procedure:

Place sample in 1X citrate buffer (pH 6.0) in pressure cooker under 125℃ for 4min and under 90℃ for 45min, cool sample subsequently. Wash sample with 1XPBS.

Step-by-step procedure:

1. Incubate sections in 3% H_2O_2 in 1X PBS at room temperature for 10 minutes and then wash the sections with 1X PBS.
2. Incubate sections in blocking solution for 10 minutes.
3. Add primary antibodies (1.5 ug/ml) and incubate the sections overnight at 4°C, wash sample with 1X PBS afterwards.
4. Incubate sections with labeled polymer[(1)] (HRP-conjugated 2 Ab) for 30 min followed by washing the sections

with 1X PBS.

5. Application of chromogen and substrate solution[(2)] (DAB or other suitable peroxidase substrate). Wash sample thoroughly under running tap water.
6. Counter stain the samples in Mayer's hematoxylin.
7. Dehydrate and mount samples.

Note:

[(1)] [(2)] These are the components of the Immunodetection Kit- EnVision Detection Kit, Peroxidase/DAB, Rabbit/Mouse (DAKO, Cat # K5007))

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繁體中文

衛署醫器製壹字第004236號

亞諾法α-輔肌動蛋白 4 單株抗體(未滅菌)

Abnova Anti-ACTN4 mAb (Non-sterile)

目錄號碼: DH0003

體外診斷試劑(IVD)：美國、歐盟及台灣

限研究用(RUO)：其他國家

本產品限專業人員操作使用

用途

α-輔肌動蛋白 4 的老鼠單株抗體，clone 13G9，適用於半定量測定(semi-quantitative detection)經福馬林固定、石蠟包埋的人類組織切片中的α-輔肌動蛋白 4。臨床上任何陽性或陰性的染色結果之判定需輔以形態學(morphology)和組織學(histology)的判讀結果為輔助判斷，並且要有適當的對照組。結果的判讀需由合格的病理學家來執行，並依病人的病歷及其他的診斷測試(diagnostic tests)結果來得出最終的結論。

實驗原理

免疫組織化學染色(IHC)技術可以讓我們透過顯微鏡觀察到組織裡特定成份(通常是蛋白)的位置。此技術共有 2 個實驗步驟，第一個步驟為抗原和一級抗體的結合(antigen-primary antibody interactions)，第 2 步則為以色原體(chromogen)偵測該結合的抗體，使該抗原-抗體的結合物在組織裡呈色，而顯現出其所在的位置。

提供的試劑

1. 100 ug 的α-輔肌動蛋白 4 老鼠單株抗體，clone 13G9，溶於 1x PBS, pH 7.2。

需要但未提供的試劑

1. Blocking solution or Antibody Diluent (DAKO, Cat # S3022)
2. Immunodetection Kit- EnVision Detection Kit, Peroxidase/DAB, Rabbit/Mouse (DAKO, Cat # K5007)

使用者若未搭配使用亞諾法建議之試劑，可能會無法達到預期的實驗結果。

Isotype

IgG2b

免疫原(Immunogen)

其免疫原是一段序列為 NQSYQYGPSSAGNGA 的多胜肽。

專一性

辨認人類α-輔肌動蛋白 4。

抗體濃度

請參考產品試劑管上的標籤資訊。

建議的實驗條件

建議的抗體濃度為 1.5 ug/ml，在 4°C 作用隔夜(overnight)，請勿重複使用。以熱處理的方式進行抗原恢復(antigen retrieval)，建議使用 0.01M citrate retrival solution (pH 6.0)。這裡提供的僅是建議，客戶可依據各自的情況調整出最佳的實驗條件。

保存期限及保存條件

存放於-20°C，產品的保存期限標記於產品試劑管的標籤上。使用前請先進行分裝，每次使用時只取出所需使用抗體，以避免或減少因反覆冷凍和解凍而影響抗體的品質。不同批號的抗體請勿混合使用，如果已經過了保存期限也請勿再使用。其他未載明於本說明書裡的保存條件，使用者須自行確認其保存效果。

樣本的製備

要用於 IHC 染色的組織樣本需先用福馬林固定。

理想的染色結果

此抗體的染色型態為細胞質或細胞核。

染色步驟

以下的實驗步驟(protocol)是亞諾法所使用的。客戶亦可參考其所選用的偵測系統(detection system)所提供的實驗步驟。

組織切片的去蠟以及使用 1X PBS 復水(rehydrate)

依以下流程進行樣本的前處理：

將樣本(組織切片)放置在 1X citrate buffer (pH 6.0)中，置於 125°C 的壓力鍋 (pressure cooker)裡 4 分鐘，之後再置於 90°C 的壓力鍋 (pressure cooker)裡 45 分鐘，然後冷卻樣本。用 1X PBS 清洗組織切片。

實驗步驟

1. 將組織切片浸泡在含3% H_2O_2的1X PBS中，置於室溫(RT)10分鐘，然後以1X PBS清洗組織切片。
2. 將組織切片浸泡在blocking solution中10分鐘。
3. 加入 α-輔肌動蛋白一級抗體 (1.5 ug/ml)然後將組織切片放置在4°C 隔夜(overnight)，之後以1X PBS清洗組織切片。
4. 加入labeled polymer(1) (HRP-二級抗體)並作用30分鐘，之後以1X PBS清洗組織切片。
5. 加入色原體及substrate solution(2) (DAB or other suitable peroxidase substrate)。並在流動的自來水下清洗組織切片。
6. 將組織切片用Mayer's hematoxylin染劑進行對比染色(Counter stain)。
7. 將組織切片進行脫水之後使用封片膠進行封片。

備註: [1][2] 這些是Immunodection Kit- EnVision Detection Kit, Peroxidase/DAB, Rabbit/Mouse (DAKO, Cat # K5007)裡的試劑。

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