

Rabbit Anti-S100A1 [EP184]: RM0173

Intended Use: For Research Use Only

Description: S100A1 is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100A1 may function in stimulation of Ca²⁺-induced Ca²⁺ release, inhibition of microtubule assembly and inhibition of protein kinase C-mediated phosphorylation. In normal tissues, S100A1 is expressed in cardiac muscle, skeletal muscle and neuronal cells. Reduced expression of S100A1 has been implicated in cardiomyopathies. Recent studies have shown that S100A1 protein is present in renal oncocytomas and clear cell and papillary renal cell carcinomas but not in chromophobe renal cell carcinomas. It is thus useful in distinguishing between these tumors. S100A1 was also found in 94% of nephrogenic adenoma but negative in prostate carcinoma. It is a specific and sensitive marker for nephrogenic adenoma.

Specifications

Clone: EP184
Source: Rabbit
Isotype: IgG
Reactivity: Human
Localization: Cytoplasm
Formulation: Tissue culture supernatant in PBS pH7.5, containing 0.2% BSA, 15mM sodium azide (NaN₃)
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
Applications: IHC
Package:

Description	Catalog No.	Size
S100A1 Concentrated	RM0173	1 ml

IHC Procedure*

Positive Control Tissue: Heart muscle, papillary RCC
Concentrated Dilution: 50-200
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.