

Mouse Anti-CITED1/MSG1 [5H6]: MC0228

Intended Use: For Research Use Only

Description: CITED1 belongs to CITED family and only in melanocytes and testis. It is a transcriptional cofactor expressed in the metanephric mesenchyme (MM) of the embryonic kidney and is down-regulated as these cells undergo epithelial differentiation. It is thought that CITED1 may play a role in maintaining MM cells in an undifferentiated state. Wilms' tumors are thought to arise from abnormal postnatal retention and dysregulated differentiation of nephrogenic progenitor cells that originate as a condensed MM within embryonic kidneys. CITED1 expression has been shown to persist in blastemal cell populations of human WT. In the developing embryonic kidney, CITED1 expression is seen in the cytoplasmic compartment. In WT, expression of CITED1 is detected in the nuclear compartment of tumor cells. It has been suggested that persistent expression of CITED1 in the MM could play a role in WT initiation and pathogenesis.

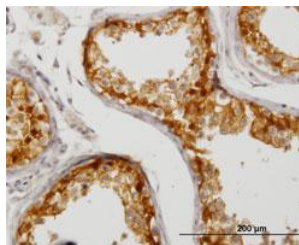
Specifications:

Clone: 5H6
 Source: Mouse
 Isotype: IgG2a/κ
 Reactivity: Human
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
CITED1/MSG1 [5H6] Concentrated	MC0228	1 ml

IHC Procedure*:

Positive Control Tissue: Wilms' tumor
 Concentrated Dilution: 10-100
 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.



FFPE human testis stained with anti- CITED1 using DAB

References:

1. Functional Characterization of Preadipocytes Derived from Human Periaortic Adipose Tissue. Vargas D, et al. Int J Endocrinol 2017:2945012, 2017.
2. Human ADMC-Derived Adipocyte Thermogenic Capacity Is Regulated by IL-4 Receptor. Lizcano F, et al. Stem Cells Int 2017:2767916, 2017.
3. Regulation of human subcutaneous adipocyte differentiation by EID1. Vargas D, et al. J Mol Endocrinol 56:113-22, 2016.
4. Modifications of Human Subcutaneous ADMSC after PPAR γ Activation and Cold Exposition. Vargas D, et al. Stem Cells Int 2015:196348, 2015.
5. Evaluation of CITED1, SIX1, and CD56 protein expression for identification of blastemal elements in Wilms tumor. Sehic D, et al. Am J Clin Pathol 141:828-33, 2014.

Doc. 100-MC0228
Rev. A