Data Sheet (Cat.No.TMAY-01673)

TargetMol

Anti-S100A16 Antibody (7D573)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7D573
Purification:	Protein A

Applications

Application:	ELISA
Recommended	ELISA: 1:5000-1:10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human S100A16 protein (TMPY-02135)
Antigen Species:	Human
Synonyms:	S100 calcium binding protein A16;S100F;MGC17528;AAG13;DT1P1A7
Biology Area:	Calcium-binding Proteins and Related Molecules

Research Background

S100A16 is a member of S100 protein superfamily that carries calcium-binding EF-hand motifs. S100 proteins are cell- and tissue-specific and are involved in many intra- and extracellular processes through interacting with specific target proteins. S100A16 expression was found to be astrocyte-specific. The S100A16 protein was found to accumulate within nucleoli and to translocate to the cytoplasm in response to Ca(2+) stimulation. The homodimeric structure of human S100A16 in the apo state has been obtained both in the solid state and in solution, resulting in good agreement between the structures with the exception of two loop regions. The homodimeric solution structure of human S100A16 was also calculated in the calcium(II)-bound form. Differently from most S100 proteins, the conformational rearrangement upon calcium binding is minor. Immunoprecipitation analysis revealed that S100A16 could physically interact with tumor suppressor protein p53, also a known inhibitor of adipogenesis. Overexpression or RNA interference-initiated reduction of S100A16 led to the inhibition or activation of the expression of p53-responsive genes, respectively. S100A16 protein is a novel adipogenesis-promoting factor and that increased expression of S100A16 in 3T3-L1 adipocytes can have a negative impact on insulin sensitivity.

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