Data Sheet (Cat.No.TMAC-02527)

Anti-MEIS2 Antibody (3Y477)

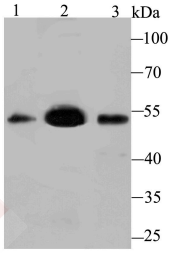
Product Details

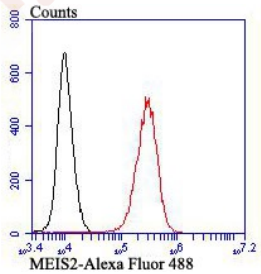
Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 51 kDa.
Clone:	3Y477
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of MEIS2 on different lysates using anti-MEIS2 antibody at 1/500 dilution. Positive control: Lane 1: Mouse testis, Lane 2: SH-SY-5Y, Lane 3: Mouse lung.
2. Flow cytometric analysis of K562 cells with MEIS2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.





Application:	FCM,WB
Recommended	WB: 1:500-1000; FCM: 1:50-100

Properties

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

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	O14770
Synonyms:	MEIS2;MRG1;MGC2820;Meis homolog 2;Meis1 related protein 1;Meis homeobox 2;Meis1 myeloid ecotropic viral integration site 1 homolog 2 (mouse);HsT18361;Meis1-related protein 1;Meis1 myeloid ecotropic viral integration site 1 homolog 2;Meis1 related gene 1;Meis (mouse) homolog 2;MEIS 2;Homeobox protein Meis2;TALE homeobox protein Meis2;MEIS2_HUMAN

Research Background

Profilins regulate Actin polymerization by binding to and sequestering the Actin monomer. Profilins act as a nucleotide exchange factor that charges Actin with ATP after binding the Actin monomer through a 1:1 stoichiometric relationship. Human Profilin-1 and Profilin-2 are encoded by two separate genes mapping to chromosomes 17p13.2 and 3q25.1, respectively. Both Profilin-1 and Profilin-2 are abundantly expressed in kidney. Profilin-1 is highly expressed in lung, liver, placenta and kidney while Profilin-2 is highly expressed in brain and skeletal muscle. In axonal and dendritic processes of mouse brain, Profilins co-localize with dynamin I and synapsin. Profilin may play a role in mediating cell adhesion. The overexpression of Profilin in endothelial cells results in increased adhesion to Fibronectin. In food allergy, plant Profilin is considered a pan-allergen. Case studies indicate individuals with allergies to various foods including celery, carrots, zucchini and peanuts are actually sensitive to the Profilin proteins in these foods.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481