Data Sheet (Cat.No.TMAC-02662)

Anti-STK3 Antibody (1D681)

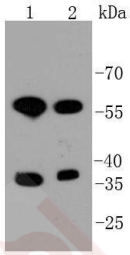
Product Details

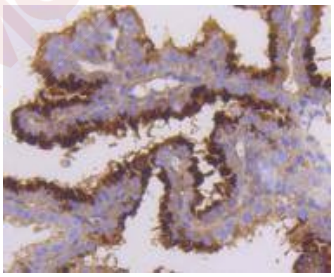
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 36/56 kDa.
Clone:	1D681
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of Mst2 on different lysates using anti-Mst2 antibody at 1/1,000 dilution. Positive control: Lane 1: CRC, Lane 2: HCT116.
2. Immunohistochemical analysis of paraffin-embedded mouse placenta tissue using anti-Mst2 antibody. Counter stained with hematoxylin.





Application:	IHC,IP,WB
Recommended	WB: 1:1000-5000; IHC: 1:50-200

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:	Q13188
Synonyms:	MST2;KRS1;STE20-like kinase MST2;EC 2.7.11.1;Serine/threonine-protein kinase 3; Serine/threonine-protein kinase Krs-1;STK 3;MST-2;Mammalian STE20-like protein kinase 2

Research Background

Sterile-20 (Ste20) is a serine/threonine kinase in Saccharomyces cerevisiae that is involved in relaying signals from G protein-coupled receptors to cyto-solic MAP kinase cascades. Mammalian protein kinases that display sequence similarity to Ste20 are divided into two groups, the PAK subfamily and the GCK subfamily. The PAK subfamily members contain a C-terminal catalytic domain and an N-terminal regulatory domain with a p21Rac/Cdc42-binding site, and these kinases can activate both p38 MAPK and JNK. The GCK subfamily members contain a C-terminal regulatory domain and an N-terminal catalytic domain, and they have diverse roles in many pathways, including the activation of ERK, JNK, p38 MAPK, and caspase-3. The mammalian Ste20-like kinases (MST kinases), also known as Krs proteins, are members of the GCK subfamily. Ksr-1 (MST-2) and Ksr-2 (MST-1) are both direct substrates of caspase-3 that accelerate caspase-3 activation. MST-3 is ubiquitously expressed in mammalian tissue and can phosphorylate exogenous substrates as well as itself. MST-4 is highly expressed in placenta, thymus, and peripheral blood leukocytes, and it specifically activates ERK.

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