

For Research Use Only

# MTCL2 Polyclonal antibody

Catalog Number:33016-1-AP



## Basic Information

Catalog Number:

33016-1-AP

Concentration:

450 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG35888

GenBank Accession Number:

NM\_080627

GeneID (NCBI):

140710

UNIPROT ID:

O94964

Full Name:

chromosome 20 open reading frame

117

Calculated MW:

159kDa

Observed MW:

183 kDa, 50 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB 1:500-1:2000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, fetal human brain

## Background Information

The coiled-coil protein MTCL2 preferentially acts on the perinuclear microtubules accumulated around the Golgi. MTCL2 associates with the Golgi membrane through the N-terminal coiled-coil region and directly binds microtubules through the conserved C-terminal domain without promoting microtubule stabilization. Knockdown of MTCL2 significantly impaired microtubule accumulation around the Golgi, as well as the compactness of the Golgi ribbon assembly structure. MTCL2 forms parallel oligomers through homo-interaction of the central coiled-coil motifs, and promotes asymmetric microtubule organization by crosslinking microtubules on the Golgi membrane. Results of in vitro wound healing assays further suggest that this function of MTCL2 enables integration of the centrosomal and Golgi-associated microtubules on the Golgi membrane, supporting directional migration. Additionally, the results demonstrated the involvement of CLASPs and giantin in mediating the Golgi association of MTCL2 (PMID: 35543016).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

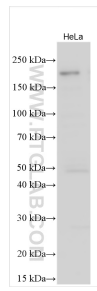
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## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 33016-1-AP (C20orf117 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.