

## Malectin/MLEC Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57193

# **Specification**

## Malectin/MLEC Polyclonal Antibody - Product Information

Application **Primary Accession** Reactivity

Host Clonality Calculated MW **Physical State** Immunogen

**Epitope Specificity** 

Isotype **Purity** 

Buffer

affinity purified by Protein A

SUBCELLULAR LOCATION

**SIMILARITY** Important Note IHC-P, IHC-F, IF, ICC, E

014165

Rat, Pig, Dog, Bovine

**Rabbit Polyclonal 29 KDa** Liquid

KLH conjugated synthetic peptide derived

from human Malectin/MLEC

201-292/292

laG

0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

**Endoplasmic reticulum membrane.** Belongs to the malectin family.

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

# **Background Descriptions**

MLEC is a 292 amino acid single-pass type I membrane protein of the endoplasmic reticulum that belongs to the malectin family and is thought to play a role in N-glycosylation. MLEC may function as a carbohydrate-binding protein that preferentially binds Glc2-N-glycan. The gene encoding MLEC maps to human chromosome 12, which makes up about 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12, including hypochondrogenesis, achondrogenesis and Kniest dysplasia. Noonan syndrome, which includes heart and facial developmental defects among the primary symptoms, is caused by a mutant form of PTPN11 gene product, SH-PTP2. Chromosome 12 is also home to a homeobox gene cluster, which encodes crucial transcription factors for morphogenesis, and the natural killer complex gene cluster, encoding C-type lectin proteins which mediate the NK cell response to MHC I interaction. Trisomy 12p leads to facial development defects, seizure disorders and a host of other symptoms which vary in severity depending on the extent of mosaicism. It is most severe in cases of complete trisomv.

#### Malectin/MLEC Polyclonal Antibody - Additional Information

**Gene ID 9761** 

**Other Names** Malectin, MLEC, KIAA0152



#### **Dilution**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution\_IF">IF~~1:50~200</span><br \> <span class ="dilution\_ICC">ICC~~N/A</span><br \> <span class ="dilution\_E">E~~N/A</span>

#### Storage

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

## Malectin/MLEC Polyclonal Antibody - Protein Information

Name MLEC (HGNC:28973)

Synonyms KIAA0152

#### **Function**

Carbohydrate-binding protein with a strong ligand preference for Glc2-N-glycan. May play a role in the early steps of protein N- glycosylation (By similarity).

#### **Cellular Location**

Endoplasmic reticulum membrane; Single-pass type I membrane protein

### Malectin/MLEC Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **Malectin/MLEC Polyclonal Antibody - Images**