

# GDI1 Polyclonal antibody

Catalog Number: 55214-1-AP

## Basic Information

**Catalog Number:**

55214-1-AP

**Size:**

800 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_001493

**GeneID (NCBI):**

2664

**UNIPROT ID:**

P31150

**Full Name:**

GDP dissociation inhibitor 1

**Calculated MW:**

51 kDa

**Observed MW:**

51-55 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

WB : SH-SY5Y cells, human brain tissue, mouse brain tissue

## Background Information

GDP dissociation inhibitors (GDIs) are proteins that regulate the GDP-GTP exchange reaction of members of the rab family. GDIs can bind and release GDP-bound Rab proteins from membranes. Two GDI proteins towards different Rab proteins have been identified. GDI1 interacts with almost all of the Rab proteins, while GDI2 interacts with Rab11 but not Rab3A. GDI1 is expressed primarily in neural and sensory tissues and also in secretory cells, displaying a diffuse, cytoplasmic distribution in cells. It runs as a 55kda protein in SDS-PAGE. (PMID: 7929030, PMID: 19570034). Defects in GDI1 are the cause of mental retardation X-linked type 41 (MRX41). Defects in GDI1 are the cause of mental retardation X-linked type 48 (MRX48). The antibody is specific to GDI1. And it has no cross reaction to GDI2.

## Storage

**Storage:**

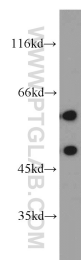
Store at -20°C.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 55214-1-AP (GDI1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.