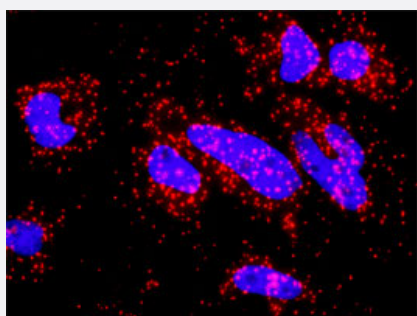


APPL1 & HDAC1 Protein Protein Interaction Antibody Pair

Catalog # DI0403

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between APPL1 and HDAC1. HeLa cells were stained with anti-APPL1 rabbit purified polyclonal antibody 1:1200 and anti-HDAC1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description

This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the APPL1 protein, and the other against the HDAC1 protein for use in [in situ Proximity Ligation Assay](#). [See Publication Reference below](#).

Reactivity

Human

Quality Control Testing

Protein protein interaction immunofluorescence result.
Representative image of Proximity Ligation Assay of protein-protein interactions between APPL1 and HDAC1. HeLa cells were stained with anti-APPL1 rabbit purified polyclonal antibody 1:1200 and anti-HDAC1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Supplied Product

Antibody pair set content:
1. APPL1 rabbit purified polyclonal antibody (100 ug)
2. HDAC1 mouse monoclonal antibody (40 ug)
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

Storage Instruction

Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze-thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — HDAC1

Entrez GeneID [3065](#)

Gene Name HDAC1

Gene Alias DKFZp686H12203, GON-10, HD1, RPD3, RPD3L1

Gene Description histone deacetylase 1

Omim ID [601241](#)

Gene Ontology [Hyperlink](#)

Gene Summary Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq]

Other Designations OTTHUMP00000008745|reduced potassium dependency, yeast homolog-like 1

Gene Info — APPL1

Entrez GeneID [26060](#)

Gene Name APPL1

Gene Alias APPL, DIP13alpha

Gene Description adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1

Omim ID [604299](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene has been shown to be involved in the regulation of cell proliferation, and in the crosstalk between the adiponectin signalling and insulin signalling pathways. The encoded protein binds many other proteins, including RAB5A, DCC, AKT2, PIK3CA, adiponectin receptors, and proteins of the NuRD/MeCP1 complex. This protein is found associated with endosomal membranes, but can be released by EGF and translocated to the nucleus. [provided by RefSeq]

Other Designations

AKT2 interactor|adaptor protein containing pH domain, PTB domain and leucine zipper motif 1|signaling adaptor protein DIP13alpha

Pathway

- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Notch signaling pathway](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)

Disease

- [Asthma](#)
- [Cognition Disorders](#)
- [Diabetes Mellitus](#)
- [Dyslipidemias](#)
- [Genetic Predisposition to Disease](#)
- [Huntington disease](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Mental Status Schedule](#)
- [Neoplasms](#)
- [Ovarian cancer](#)

- [Ovarian Neoplasms](#)
- [Prediabetic State](#)
- [Tobacco Use Disorder](#)