HDAC2 & RELA Protein Protein Interaction Antibody Pair

Catalog # DI0600 Size 1 Set

Applications





Representative image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and RELA. A-549 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-RELA mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



In situ Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and RELA. HT-29 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-RELA mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



In situ Proximity Ligation Assay (Cell)

Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and RELA. HT-29 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-RELA mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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Product Information



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Representative image of Proximity Ligation Analysis of protein-protein interactions between HDAC2 and RELA. HeLa cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-RELA mouse monoclonal antibody 1:50. Each red dot represents the detection of proteinprotein 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-prot ein interaction, one against the HDAC2 protein, and the other against the RELA protein for use in <u>in</u> <u>situ Proximity Ligation Assay</u> . See Publication Reference below.
Reactivity	Human
Quality Control Testing	Protein protein interaction immunofluorescence result. Representative image of Proximity Ligation Analysis of protein-protein interactions between HDAC2 and RELA. HeLa cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and a nti-RELA 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. HDAC2 rabbit purified polyclonal antibody (100 ug) 2. RELA 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 tha w cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

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Gene Info — HDAC2	
Entrez GenelD	3066
Gene Name	HDAC2
Gene Alias	RPD3, YAF1
Gene Description	histone deacetylase 2
Omim ID	<u>605164</u>
Gene Ontology	Hyperlink
Gene Summary	This gene product belongs to the histone deacetylase family. Histone deacetylases act via the for mation of large multiprotein complexes and are responsible for the deacetylation of lysine residue s on the N-terminal region of the core histones (H2A, H2B, H3 and H4). This protein also forms tra nscriptional repressor complexes by associating with many different proteins, including YY1, a ma mmalian zinc-finger transcription factor. Thus it plays an important role in transcriptional regulation , cell cycle progression and developmental events. [provided by RefSeq
Other Designations	OTTHUMP00000040427 YY1-associated factor 1 transcriptional regulator homolog RPD3

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Product Information

Gene Info — RELA

Entrez GenelD	<u>5970</u>
Gene Name	RELA
Gene Alias	MGC131774, NFKB3, p65
Gene Description	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
Omim ID	<u>164014</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA, or RELB (MIM 604758) to form the NFKB complex. The p50 (NFKB1)/p65 (RELA) heterodimer is the most abundant form of NFKB. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 16 4008 or NFKBIB, MIM 604495), which inactivate NFKB by trapping it in the cytoplasm. Phosphory lation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB, MI 603258) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NFKB complex. Activated NFKB complex translocates into the nucleus and binds DNA at k appa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-pri me (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).[supplied by OMIM
Other Designations	nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 v-rel avian reticuloendothelios is viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65)) v-rel reticuloendotheliosis viral oncogene homolog

Pathway

- <u>Acute myeloid leukemia</u>
- Adipocytokine signaling pathway
- <u>Apoptosis</u>
- <u>B cell receptor signaling pathway</u>
- Cell cycle
- <u>Chemokine signaling pathway</u>
- <u>Chronic myeloid leukemia</u>
- Chronic myeloid leukemia
- Epithelial cell signaling in Helicobacter pylori infection
- <u>MAPK signaling pathway</u>

- Neurotrophin signaling pathway
- Notch signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer
- <u>T cell receptor signaling pathway</u>
- Toll-like receptor signaling pathway

Disease

- <u>ACTH-Secreting Pituitary Adenoma</u>
- Adenoma
- Arthritis
- Asthma
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms
- <u>Cardiovascular Diseases</u>
- Cardiovascular Diseases
- Diabetes Mellitus
- Diabetes Mellitus
- Disease Progression
- <u>Disease Susceptibility</u>
- Edema

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- Edema
- <u>Genetic Predisposition to Disease</u>
- Genetic Predisposition to Disease
- Hematologic Diseases
- HIV Infections
- Hodgkin Disease
- Liver Cirrhosis
- Lymphoproliferative Disorders
- <u>Multiple Myeloma</u>
- <u>Neoplasms</u>
- <u>Occupational Diseases</u>
- Ovarian cancer
- Ovarian Neoplasms
- <u>Testicular Neoplasms</u>
- <u>Waldenstrom Macroglobulinemia</u>
- Werner syndrome