CD19 & CD82 Protein Protein Interaction Antibody Pair

Catalog # DI0083 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CD19 and CD82. HeLa cells were stained with anti-CD19 rabbit purified polyclonal antibody 1:1200 and anti-CD82 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-prot ein interaction, one against the CD19 protein, and the other against the CD82 protein for use in <u>in sit</u> <u>u Proximity Ligation Assay</u> . 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 CD19 and CD82. HeLa cells were stained with anti-CD19 rabbit purified polyclonal antibody 1:1200 and anti-C D82 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein inter action complex. The images were analyzed using an optimized freeware (BlobFinder) download fro m The Centre for Image Analysis at Uppsala University.
Supplied Product	Antibody pair set content: 1. CD19 rabbit purified polyclonal antibody (100 ug) 2. CD82 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

• In situ Proximity Ligation Assay (Cell)

Gene Info — CD19	
Entrez GenelD	<u>930</u>
Gene Name	CD19
Gene Alias	B4, MGC12802
Gene Description	CD19 molecule
Omim ID	<u>107265</u>
Gene Ontology	Hyperlink
Gene Summary	Lymphocytes proliferate and differentiate in response to various concentrations of different antige ns. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold fo r antigen receptor-dependent stimulation. [provided by RefSeq
Other Designations	B-lymphocyte antigen CD19 CD19 antigen

Gene Info — CD82	
Entrez GenelD	3732
Gene Name	CD82
Gene Alias	4F9, C33, GR15, IA4, KAI1, R2, SAR2, ST6, TSPAN27
Gene Description	CD82 molecule
Omim ID	<u>176807 600623</u>
Gene Ontology	Hyperlink
Gene Summary	This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tum or progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter. Its expression and that of p53 are strongly correlated, and the loss of expression of these two proteins is associated with poor survival for prostate cancer patients. Two altern atively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq]



Product Information

Other Designations

C33 antigen|CD82 antigen|R2 leukocyte antigen|inducible membrane protein R2|kangai 1 (suppr ession of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by mo noclonal and antibody IA4))|suppression of tumorigenicity 6|suppress

Pathway

- <u>B cell receptor signaling pathway</u>
- Hematopoietic cell lineage
- p53 signaling pathway
- Primary immunodeficiency

Disease

- Arthritis
- Crohn Disease
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Pemphigus
- Scleroderma