

Recombinant Human Ikaros protein ab169877

描述	
产品名称	重组人Ikaros蛋白
纯度	> 90 % SDS-PAGE. ab169877 was expressed in E. coli as inclusion bodies, refolded and chromatographically purified.
表达系统	Escherichia coli
Accession	<u>Q13422</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MASMTGGQQMGRGHHHHHGNLYFQGGEFDADEGQDMSQVSG KESPPVSD TPDEGDPMPIPEDLSTTSGGQQSSKSDRVVASNVKVETQSD EENGRACE MNGEECAEDLRMLDASGEKMNGSHRDQGSSALSGVGGIRLPN GKLKCDIC GIICIGPNVLMVHKRSHTGERPFQCNQCGASFTQKGNLLRHI KLHSGEKP FKCHLCNYACRRRDALTGHLRTHSVGKPHKCGYCGRSYKQRS SLEEKER CHNYLESMGLPGTLYPVIKEETNHSEMAEDLCKIGSERSLVL DRLASNVA KRKSSMPQKFLGDKGLSDTPYDSSASYEKENEMMKSHVMDQA INNAINYL GAESLRPLVQTPPGGSEVVPVISPMYQLHKPLAEGTPRSNHS AQDSAVEN LLLLSKAKLVPSEREASPSNSCQDSTDTESNNEEQRSGLIYL TNHIAPHA RNGLSLKEEHRAYDLLRAASENSQDALRVVSTSGEQMKVYKC EHCrvLFL DHVMTIHMGC HGRDPFECNMCGYHSQDRYEFSSHITRGEH RFHMS
预测分子量	61 kDa including tags
氨基酸	1 to 519

标签 His tag N-Terminus , T7 tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab169877** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用 SDS-PAGE

形式 Liquid

制备和贮存

稳定性和存储 Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituent: 0.32% Tris-HCl buffer

Contains NaCl, KCl, EDTA, arginine, DTT and glycerol.

常规信息

功能 Transcription regulator of hematopoietic cell differentiation (PubMed:17934067). Binds gamma-satellite DNA (PubMed:17135265, PubMed:19141594). Plays a role in the development of lymphocytes, B- and T-cells. Binds and activates the enhancer (delta-A element) of the CD3-delta gene. Repressor of the TDT (fikzterminal deoxynucleotidyltransferase) gene during thymocyte differentiation. Regulates transcription through association with both HDAC-dependent and HDAC-independent complexes. Targets the 2 chromatin-remodeling complexes, NuRD and BAF (SWI/SNF), in a single complex (PYR complex), to the beta-globin locus in adult erythrocytes. Increases normal apoptosis in adult erythroid cells. Confers early temporal competence to retinal progenitor cells (RPCs) (By similarity). Function is isoform-specific and is modulated by dominant-negative inactive isoforms (PubMed:17135265, PubMed:17934067).

组织特异性 Abundantly expressed in thymus, spleen and peripheral blood Leukocytes and lymph nodes. Lower expression in bone marrow and small intestine.

疾病相关 Defects in IKZF1 are frequent occurrences (28.6%) in acute lymphoblastic leukemia (ALL). Such alterations or deletions lead to poor prognosis for ALL. Chromosomal aberrations involving IKZF1 are a cause of B-cell non-Hodgkin lymphomas (B-cell NHL). Translocation t(3;7)(q27;p12), with BCL6.

序列相似性 Belongs to the Ikaros C2H2-type zinc-finger protein family. Contains 6 C2H2-type zinc fingers.

结构域 The N-terminal zinc-fingers 2 and 3 are required for DNA binding as well as for targeting IKFZ1 to pericentromeric heterochromatin. The C-terminal zinc-finger domain is required for dimerization.

翻译后修饰 Phosphorylation controls cell-cycle progression from late G(1) stage to S stage. Hyperphosphorylated during G2/M phase. Dephosphorylated state during late G(1) phase. Phosphorylation on Thr-140 is required for DNA and pericentromeric location during mitosis. CK2 is the main kinase, in vitro. GSK3 and CDK may also contribute to phosphorylation of the C-terminal serine and threonine residues. Phosphorylation on these C-terminal residues reduces the DNA-binding ability. Phosphorylation/dephosphorylation events on Ser-13 and Ser-295 regulate TDT expression during thymocyte differentiation. Dephosphorylation by protein phosphatase 1

regulates stability and pericentromeric heterochromatin location. Phosphorylated in both lymphoid and non-lymphoid tissues (By similarity). Phosphorylation at Ser-361 and Ser-364 downstream of SYK induces nuclear translocation.

Sumoylated. Simultaneous sumoylation on the 2 sites results in a loss of both HDAC-dependent and HDAC-independent repression. Has no effect on pericentromeric heterochromatin location.

Desumoylated by SENP1.

Polyubiquitinated.

细胞定位

Cytoplasm; Nucleus. In resting lymphocytes, distributed diffusely throughout the nucleus. Localizes to pericentromeric heterochromatin in proliferating cells. This localization requires DNA binding which is regulated by phosphorylation / dephosphorylation events and Nucleus. In resting lymphocytes, distributed diffusely throughout the nucleus. Localizes to pericentromeric heterochromatin in proliferating cells. This localization requires DNA binding which is regulated by phosphorylation / dephosphorylation events (By similarity).

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