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SH2B3 Recombinant Rabbit mAb

Catalog # AP98709

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UQQ2
Other Accession	Q9UQQ2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	63225
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SH2B adapter family. Contains 1 PH domain. Contains 1 SH2 domain.
Post-translational modifications	Tyrosine phosphorylated by LCK.
DISEASE	Genetic variations in SH2B3 are associated with susceptibility to celiac disease type 13 (CELIAC13)[MIM:612011]; also known as susceptibility to gluten-sensitive enteropathy type 13. Celiac disease is a multifactorial disorder of the small intestine that is influenced by both environmental and genetic factors. It is characterized by malabsorption resulting from inflammatory injury to the mucosa of the small intestine after the ingestion of wheat gluten or related rye and barley proteins. In its classic form, celiac disease is characterized in children by malabsorption and failure to thrive. Genetic variations in SH2B3 are associated with susceptibility to insulin-dependent diabetes mellitus (IDDM) [MIM:222100]; also known as diabetes mellitus type 1. IDDM normally starts in childhood or adolescence and is caused by the body's own immune system which destroys the insulin-producing beta cells in the pancreas. Classical features are polydipsia, polyphagia and polyuria, due to hyperglycemia-induced osmotic diuresis.
Background Descriptions	This gene encodes a member of the SH2B adaptor family of proteins, which are involved in a range of signaling activities by growth factor and cytokine receptors. The encoded protein is a key negative regulator of cytokine signaling and plays a critical role in hematopoiesis. Mutations in this gene have been associated with susceptibility to celiac disease type 13 and susceptibility to insulin-dependent diabetes mellitus. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2014],

Additional Information

Gene ID	10019
Other Names	IDDM20; LNK; SH2B3_HUMAN; SH2B3; Lymphocyte adapter protein; Lymphocyte-specific adapter protein Lnk; Signal transduction protein Lnk;

	SH2B3_MOUSE; SH2B3_RAT; SH2B adaptor protein 3; lymphocyte adaptor protein; SH2B adapter protein 3 (Lymphocyte adapter protein) (Lymphocyte-specific adapter protein Lnk) (Signal transduction protein Lnk)
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SH2B3
Synonyms	LNK
Function	Links T-cell receptor activation signal to phospholipase C- gamma-1, GRB2 and phosphatidylinositol 3-kinase.
Tissue Location	Preferentially expressed by lymphoid cell lines.

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