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LZTS1 Rabbit pAb

Catalog # AP98436

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9Y250
Other Accession	Q9Y250
Predicted	Rat, Pig, Human, Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66613
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LZTS1
Epitope Specificity	21-120/596
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 LZTS family.
SUBUNIT	Binds EEF1G, TLK2 and CDK1.
Post-translational modifications	Phorphorylated on serine residues. Hyperphosphorylated by the cAMP-dependent kinase PKA during cell-cycle progression.
DISEASE	Esophageal cancer (ESCR) [MIM:133239]: A malignancy of the esophagus. The most common types are esophageal squamous cell carcinoma and adenocarcinoma. Cancer of the esophagus remains a devastating disease because it is usually not detected until it has progressed to an advanced incurable stage. Note=The disease may be caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a tumor suppressor protein that is ubiquitously expressed in normal tissues. In uveal melanomas, expression of this protein is silenced in rapidly metastasizing and metastatic tumor cells but has normal expression in slowly metastasizing or nonmetastasizing tumor cells. This protein may have a role in cell-cycle control by interacting with the Cdk1/cyclinB1 complex. This gene is located on chromosomal region8p22. Loss of heterozygosity (LOH) in the 8p arm is a common characteristic of many types of cancer. [provided by RefSeq].

Additional Information

Gene ID	11178
Other Names	F37; FEZ1; PSD-Zip70; Psdzip70; LZTS1_HUMAN; LZTS1; F37/esophageal cancer-related gene-coding leucine-zipper motif; LZTS1_MOUSE; LZTS1_RAT; leucine zipper tumor suppressor 1; leucine zipper, putative tumor suppressor 1

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,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	LZTS1
Synonyms	FEZ1
Function	Involved in the regulation of cell growth. May stabilize the active CDC2-cyclin B1 complex and thereby contribute to the regulation of the cell cycle and the prevention of uncontrolled cell proliferation. May act as a tumor suppressor.
Cellular Location	Cytoplasm. Cell membrane. Cell projection, dendritic spine Postsynaptic density. Synapse Note=Associated with the plasma membrane and with microtubules Detected in dendritic spines, especially in the postsynaptic density (By similarity).
Tissue Location	Highly expressed in testis, prostate, spleen, thymus, ovary and brain. Detected at lower levels in heart, placenta, small intestine, colon, liver, kidney, skeletal muscle and pancreas Not detectable in primary tumors from breast and prostate and in many cancer cell lines.

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