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CAB39L Rabbit pAb

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Catalog # AP58514

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9H9S4
Predicted	Human, Mouse, Rat, Dog, Pig, Horse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39088
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CAB39L
Epitope Specificity	21-120/337
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 Mo25 family.
SUBUNIT	Component of a trimeric complex composed of STK11/LKB1, STRAD (STRADA or STRADB) and CAB39/MO25 (CAB39/MO25alpha or CAB39L/MO25beta): the complex tethers STK11/LKB1 in the cytoplasm and stimulates its catalytic activity (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Peutz-Jegers Syndrome (PJS) is a rare hereditary disease characterized by melanocytic macules of the lips, gastrointestinal hamartomatous polyps and an increased risk for many classes of cancer. Mutations in the gene encoding the serine/threonine kinase LKB1 (also designated STK11) are the cause of PJS. LKB1 activity increases upon the binding of a regulatory complex consisting of the STE20-related adaptor-α (STRAD α) pseudo kinase and the calcium binding protein 39 (MO25, also known as CAB39). STRAD and MO25 determine the subcellular localization of LKB1 by initiating its translocation from the nucleus to the cytoplasm, thus regulating the tumor suppressor activity of LKB1. The LKB1/STRAD/MO25 complex acts as an AMP-activated protein kinase kinase (AMPKK). CAB39L (calcium binding protein 39-like), also known as MO25L (MO25-like) or MO2L, is a 337 amino acid protein that is similar to MO25 and is found in the serum of nearly half of all patients diagnosed with acute monocytic leukemia. This suggests a role for CAB39L in carcinogenesis.

Additional Information

Gene ID	81617
Other Names	Calcium-binding protein 39-like, Antigen MLAA-34, MO25beta, Mo25-like protein, CAB39L

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	CAB39L
Function	Component of a complex that binds and activates STK11/LKB1. In the complex, required to stabilize the interaction between CAB39/MO25 (CAB39/MO25alpha or CAB39L/MO25beta) and STK11/LKB1 (By similarity).

Background

Peutz-Jegers Syndrome (PJS) is a rare hereditary disease characterized by melanocytic macules of the lips, gastrointestinal hamartomatous polyps and an increased risk for many classes of cancer. Mutations in the gene encoding the serine/threonine kinase LKB1 (also designated STK11) are the cause of PJS. LKB1 activity increases upon the binding of a regulatory complex consisting of the STE20-related adaptor-α (STRAD α) pseudo kinase and the calcium binding protein 39 (MO25, also known as CAB39). STRAD and MO25 determine the subcellular localization of LKB1 by initiating its translocation from the nucleus to the cytoplasm, thus regulating the tumor suppressor activity of LKB1. The LKB1/STRAD/MO25 complex acts as an AMP-activated protein kinase kinase (AMPKK). CAB39L (calcium binding protein 39-like), also known as MO25L (MO25-like) or MO2L, is a 337 amino acid protein that is similar to MO25 and is found in the serum of nearly half of all patients diagnosed with acute monocytic leukemia. This suggests a role for CAB39L in carcinogenesis.