

LRRC26 Antibody

Catalog # ASC11720

Product Information

Application	WB, IHC, E
Primary Accession	Q2I0M4
Other Accession	NP_001013675 , 61966761
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	34857
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	LRRC26 antibody can be used for detection of LRRC26 by Western blot at 0.5 - 1 µg/ml. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL.

Additional Information

Gene ID	389816
Other Names	Leucine-rich repeat-containing protein 26, BK channel auxiliary gamma subunit LRRC26, Cytokeratin-associated protein in cancer, LRRC26, CAPC
Target/Specificity	LRRC26; LRRC26 antibody is human specific.
Reconstitution & Storage	LRRC26 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	LRRC26 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LRRC26
Synonyms	CAPC
Function	Auxiliary protein of the large-conductance, voltage and calcium-activated potassium channel (BK alpha). Required for the conversion of BK alpha channels from a high-voltage to a low-voltage activated channel type in non-excitabile cells. These are characterized by negative membrane voltages and constant low levels of calcium.
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cytoplasm, cytoskeleton. Note=Localizes to the cytoplasm when expressed at high levels.

Tissue Location

Isoform 1 is expressed highly in normal prostate and salivary gland, very weakly in colon, pancreas, and intestine, and not at all in other tissues. Isoform 1 is expressed highly in many cancer cell lines and in breast cancer, pancreatic cancer and colon cancer. Isoform 2 is expressed in cancer cell lines

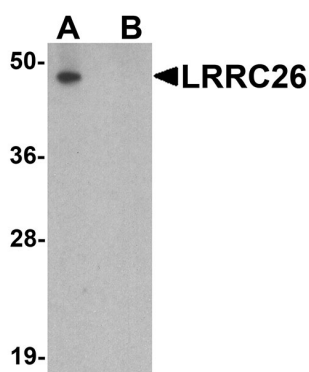
Background

The LRRC26 protein was initially identified as a cytokeratin-associated protein whose expression was elevated in multiple cancer cell lines and cancer specimens as well in normal prostate and salivary gland tissues (1). LRRC26 was later found to negatively regulate the NF-kappaB activation and suppresses tumor growth and metastasis (2). LRRC26 can also act to selectively alter the efficacy of large conductance calcium-activated K (BK) channels (3).

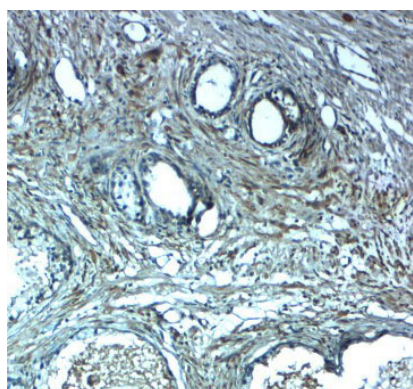
References

Egland KA, Liu XF, Squires S, et al. High expression of a cytokeratin-associated protein in many cancers. *Proc. Natl. Acad. Sci. USA* 2006; 103:5929-34.
Liu XF, Xiang L, Zhang Y, et al. CAPC negatively regulates NF- κ B activation and suppresses tumor growth and metastasis. *Oncogene* 2012; 31:1673-82.
Almassy J and Begenisich T. The LRRC26 protein selectively alters the efficacy of BK channel activators. *Mol. Pharmacol.* 2012; 81:21-30.

Images



Western blot analysis of LRRC26 in human prostate tissue lysate with LRRC26 antibody at 0.5 μ g/ml in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of LRRC26 in human prostate tissue with LRRC26 antibody at 2.5 μ g/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.