

# Product Datasheet

## PLEKHS1 Antibody (3B6) - Azide and BSA Free H00079949-M07

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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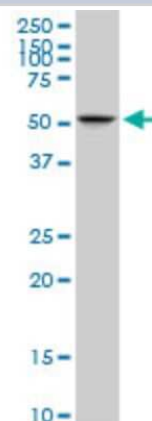
**H00079949-M07**

PLEKHS1 Antibody (3B6) - Azide and BSA Free

Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	3B6
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A purified
<b>Buffer</b>	In 1x PBS, pH 7.4
Product Description	
<b>Description</b>	Novus Biologicals Mouse PLEKHS1 Antibody (3B6) - Azide and BSA Free (H00079949-M07) is a monoclonal antibody validated for use in WB and ELISA. Anti-PLEKHS1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	79949
<b>Gene Symbol</b>	PLEKHS1
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	Reacts with chromosome 10 open reading frame 81.
<b>Immunogen</b>	C10orf81 (AAH36365, 1 a.a. ~ 282 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MEQSSPGFRQTHLQDLSEATQDVKEENHYLTPRSVLELDNIIASSDSGESIET DGPDQVSGRIECHYEPMESYFFKETSHEVDSSKEEPQTLPETQDGDHLHLQE QGSGIDWCLSPADVEAQTNDQKGSASLTVVQLSILINNIPDESQVEKLNFLS PPDVINYALALTEATGRICVSQWEGPRRLGCFCHGDHLLAVNDLKPQSLEEVSL FLTRSIQKEKLLTIGRIPNSETFHAASCMCPSKCQSAAPSQLDKPRLNRAPKR SPAIKKSQQKGARE
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
<b>Applications</b>	Western Blot, ELISA
<b>Recommended Dilutions</b>	Western Blot, ELISA
<b>Application Notes</b>	This antibody is reactive against cell lysate in western blot and recombinant protein in ELISA.

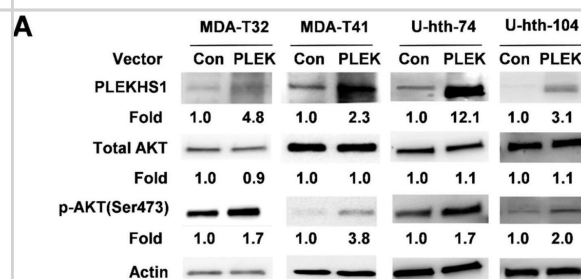
## Images

Western Blot: C10orf81 Antibody (3B6) [H00079949-M07] - Analysis of C10orf81 expression in Jurkat (Cat # L017V1).



PLEKHS1 is over-expressed in thyroid cancer (TC)-derived cell lines and primary tumors. (A) PLEKHS1 expression in TC cell lines. Left and right: PLEKHS1 mRNA and protein expression levels as determined using qPCR and immunoblotting, respectively. The quantification results (band intensity) in the right panel are shown in the left panel. (B) Differential expression of PLEKHS1 mRNA between non-cancerous adjacent thyroid tissues and primary PTC tumors. The TCGA cohort of PTC tumors and adjacent tissues are analyzed and mRNA levels were expressed as FPKM (Fragments Per Kilobase Million). (C) Higher levels of PLEKHS1 expression in ATC tumors than PTCs. (D) PLEKHS1 mRNA and protein expression levels in 20 PTC tumors as determined using qPCR and immunoblotting, respectively. The quantification results (band intensity) in the bottom panel are shown in the top panel. (E) Positive correlation between PLEKHS1 mRNA and protein expression, as revealed by the analysis of combined results from both TC cell lines (A) and primary PTC tumors (D). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32752127>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

PLEKHS1 over-expression promotes AKT phosphorylation, proliferation and migration/invasion in PTC- and ATC-derived cells. (A) Increased AKT phosphorylation in PLEKHS1-transfected cells. MDA-T32, MDA-T41, U-hth-74, and U-hth-104 cells were transfected with control (Con) empty and PLEKHS1 (PLEK) expression vectors, respectively, and harvested 48 h post-transfection for total AKT and phosphorylated AKT levels using immunoblotting. One representative experiment out of three independent experiments is shown. The fold change for PLEKHS1, total and phosphorylated AKT is indicated (based on their signal intensity normalized to  $\beta$ -actin). (B) Increased cell proliferation of cells overexpressing PLEKHS1. MDA-T32, MDA-T41 and U-hth-104 cells above were incubated for 48 h and then counted. The number of control cells was set as 100%. Shown are the results from three independent experiments. (C) Enhanced migration and invasion of PLEKHS1-overexpressed cells. MDA-T32, MDA-T41 and U-hth-104 cells above were analyzed for their migration and invasion capacities using a transwell assay system. Left: representative images of migration or invasion. Right: the quantification of migrating or invading cells based on three independent experiments. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32752127>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Xing X, Mu N, Yuan X et al. PLEKHS1 Over-Expression is Associated with Metastases and Poor Outcomes in Papillary Thyroid Carcinoma Cancers (Basel) 2020-07-31 [PMID: 32752127] (WB, Human)





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### **Products Related to H00079949-M07**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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