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# KIAA1609 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10514b

## Product Information

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| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | Q6P9B6 |
| **Other Accession** | NP_065998.3 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Canine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB28613 |
| **Calculated MW** | 50994 |
| **Antigen Region** | 426-456 |

## Additional Information

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| **Gene ID** | 57707 |
| **Other Names** | TLD domain-containing protein 1, TBC/LysM-associated domain-containing protein 1, TLDC1, KIAA1609 |
| **Target/Specificity** | This KIAA1609 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 426-456 amino acids from the C-terminal region of human K1609. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | KIAA1609 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

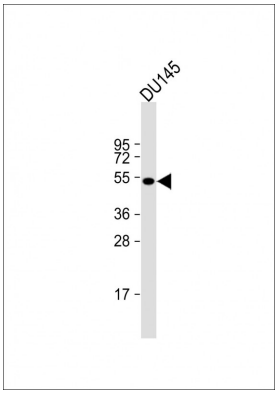
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| **Name** | MEAK7 ( HGNC:29325) |
| **Synonyms** | KIAA1609, TLDC1 |

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| **Function** | Activates an alternative mTOR signaling pathway through RPS6KB2 activation and EIF4EBP1 repression to regulate cell proliferation and migration (PubMed:29750193). Recruits MTOR at the lysosome, essential for MTOR signaling at the lysosome (PubMed:29750193). Binds to the vacuolar-type ATPase (V-ATPase) complex, triggering a conformational change and is likely to regulate its activity (PubMed:35672408, PubMed:35994636). No effect on V-ATPase activity was observed in vitro in one study although it was suggested that it may have inhibitory activity in vivo (PubMed:35672408). However, another study showed that it can promote V-ATPase activity (PubMed:38593795). Protects neuronal cells against oxidative stress (By similarity). |
| **Cellular Location** | Membrane. Cytoplasm. Lysosome |

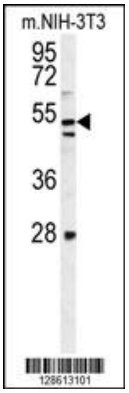
## References


Rothenberg, M.E., et al. Nat. Genet. 42(4):289-291(2010)
Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)
Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)


## Images

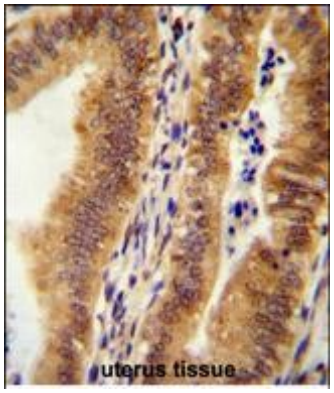


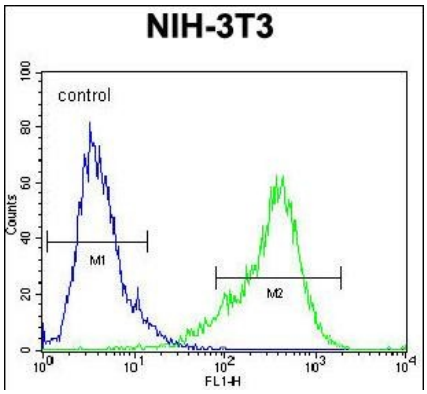

Anti-KIAA1609 Antibody (C-term) at 1:8000 dilution + DU145 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 51 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




KIAA1609 Antibody (C-term) (Cat. #AP10514b) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the KIAA1609 antibody detected the K1609 protein (arrow).

KIAA1609 Antibody (C-term) (Cat. #AP10514b) immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the KIAA1609Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.




KIAA1609 Antibody (C-term) (Cat. #AP10514b) flow cytometric analysis of NIH-3T3 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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