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# EFHB Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10904a

## Product Information

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|---|---|
| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | Q8N7U6 |
| **Other Accession** | NP_653316.3 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB28585 |
| **Calculated MW** | 93802 |
| **Antigen Region** | 1-30 |

## Additional Information

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| **Gene ID** | 151651 |
| **Other Names** | EF-hand domain-containing family member B, EFHB |
| **Target/Specificity** | This EFHB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human EFHB. |
| **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** | EFHB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | EFHB ( HGNC:26330) |
| **Synonyms** | CFAP21 |
| **Function** | Microtubule inner protein (MIP) part of the dynein-decorated doublet |

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|---|---|
| | microtubules (DMTs) in cilia axoneme, which is required for motile cilia beating (PubMed:36191189). Cytosolic sensor for calcium, modulates the interaction of STIM1 and ORAI1 upon store depletion and the activation of store-operated Ca(2+) entry (SOCE) and NFAT translocation from cytosol to nucleus (PubMed:30481768). |
| **Cellular Location** | Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250\|UniProtKB:Q8CDU5}. Cytoplasm |
| **Tissue Location** | Expressed in airway epithelial cells. |

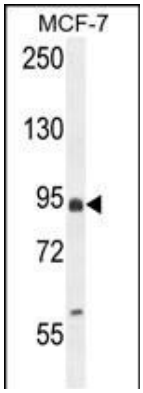
## Background

EFHB contains two EF-hand domains. There are three named isoforms.

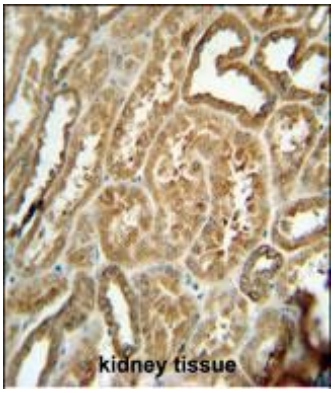
## References

Rose, J. Phd, et al. Mol. Med. (2010) In press :

## Images

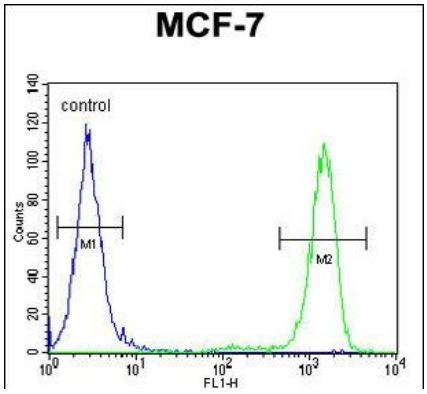



EFHB Antibody (N-term) (Cat. #AP10904a) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the EFHB antibody detected the EFHB protein (arrow).




EFHB antibody (N-term) (Cat. #AP10904a) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the EFHB antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

EFHB Antibody (N-term) (Cat. #AP10904a) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.




## Citations

- EFHB is a Novel Cytosolic Ca2+ Sensor That Modulates STIM1-SARAF Interaction.

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