

Prohibitin (PHB1) Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2710a

Product Information

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| Application | IHC-P, WB, FC, E |
| Primary Accession | P35232 |
| Other Accession | P84173 , Q3T165 |
| Reactivity | Human, Mouse |
| Predicted | Bovine, Chicken |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB10625 |
| Calculated MW | 29804 |
| Antigen Region | 92-121 |

Additional Information

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|---------------------------|---|
| Gene ID | 5245 |
| Other Names | Prohibitin, PHB |
| Target/Specificity | This Prohibitin (PHB1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 92-121 amino acids from the N-terminal region of human Prohibitin (PHB1). |
| Dilution | IHC-P~~1:100~500 WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| Format | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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 | Prohibitin (PHB1) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|-----------------|--|
| Name | PHB1 {ECO:0000303 PubMed:28017329, ECO:0000312 HGNC:HGNC:8912} |
| Function | Protein with pleiotropic attributes mediated in a cell- compartment- and tissue-specific manner, which include the plasma membrane-associated cell |

signaling functions, mitochondrial chaperone, and transcriptional co-regulator of transcription factors in the nucleus (PubMed:[11302691](#), PubMed:[20959514](#), PubMed:[28017329](#), PubMed:[31522117](#)). Plays a role in adipose tissue and glucose homeostasis in a sex-specific manner (By similarity). Contributes to pulmonary vascular remodeling by accelerating proliferation of pulmonary arterial smooth muscle cells (By similarity).

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| Cellular Location | Mitochondrion inner membrane. Nucleus. Cytoplasm. Cell membrane |
| Tissue Location | Widely expressed in different tissues. |

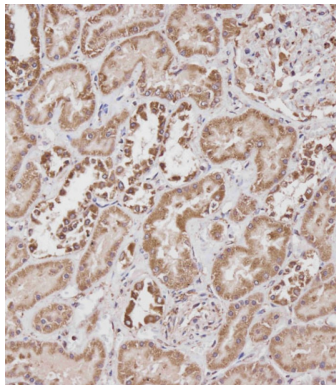
Background

Prohibitin is an evolutionarily conserved protein that is ubiquitously expressed. It is thought to be a negative regulator of cell proliferation and may be a tumor suppressor. Mutations have been linked to sporadic breast cancer. Prohibitin is expressed as two transcripts with varying lengths of 3' untranslated region.

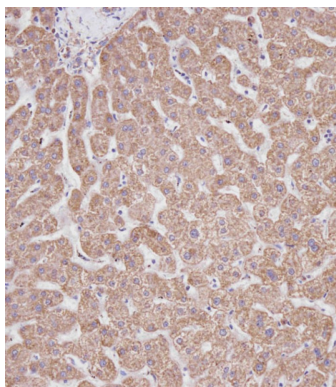
References

Gregory-Bass,R.C., Int. J. Cancer 122 (9), 1923-1930 (2008) Ross,J.A., J. Biol. Chem. 283 (8), 4699-4713 (2008) White,J.J., Genomics 11 (1), 228-230 (1991)

Images

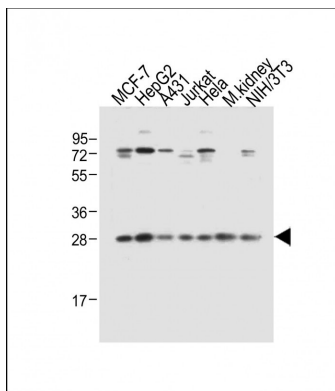


Immunohistochemical analysis of AP2710A on paraffin-embedded Human kidney tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of AP2710A on paraffin-embedded Human liver tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

All lanes : Anti-Prohibitin (PHB1) Antibody (N-term) at 1:2000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: A431 whole cell lysate Lane 4: Jurkat whole cell lysate Lane 5: Hela whole cell lysate Lane 6: Mouse kidney tissue lysate Lane 7: NIH/3T3 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 : 30 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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