

For Research Use Only

COXIV Monoclonal antibody, PBS Only (Capture)

Catalog Number: 66110-1-PBS



Basic Information

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|--|--|---|
| Catalog Number: 66110-1-PBS | GenBank Accession Number: BC021236 | Purification Method: Protein G purification |
| Size: 100ug , Concentration: 1mg/ml by Nanodrop; | GeneID (NCBI): 1327 | CloneNo.: 2A7B2 |
| Source: Mouse | UNIPROT ID: P13073 | |
| Isotype: IgG1 | Full Name: cytochrome c oxidase subunit IV isoform 1 | |
| Immunogen Catalog Number: AG20551 | Calculated MW: 19.6 kDa | |
| | Observed MW: 17-18 kDa | |

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

66110-1-PBS targets COXIV as part of a matched antibody pair:

MP50551-3: 66110-1-PBS capture and 60251-4-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

COX4l1, also named as COX4 and COXIV-1, belongs to the cytochrome c oxidase IV family. It is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. COX4l1 is a marker for mitochondria. It has two isoforms (isoform 1 and 2). Isoform 1(COX4l1) is ubiquitously expressed and isoform 2 is highly expressed in lung tissues. COX4l1 is commonly used as a loading control. This antibody is specific to COX4l1 and do not cross reacts with COX4l2.

Storage

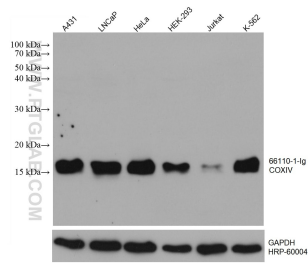
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

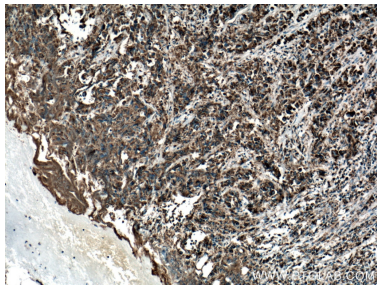
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

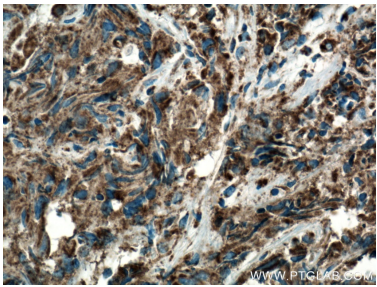
Selected Validation Data



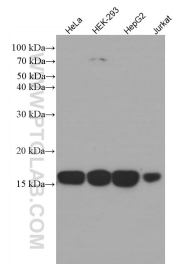
Various lysates were subjected to SDS PAGE followed by western blot with 66110-1-Ig (COXIV antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 66110-1-PBS in a different storage buffer formulation.



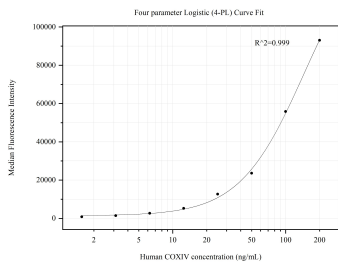
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66110-1-Ig (COXIV antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66110-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66110-1-Ig (COXIV antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66110-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 66110-1-Ig (COXIV antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66110-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50551-3, COXIV Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66110-1-PBS. Detection antibody: 60251-4-PBS. Standard:Ag1640. Range: 1.563-200 ng/mL.