

Loading ctrl: 



Loading Controls

Loading control antibodies are useful to ensure that an even amount of protein has been loaded across the gel. The targets selected as loading control markers are usually housekeeping proteins expressed at high levels in a wide range of cell lines and tissues.

PrecisA Monoclonals Loading Controls

The Loading Control Panel consists of PrecisA Monoclonals™ mouse antibodies targeting selected proteins that are constitutively expressed in a large set of cell lines and tissues.

The antibodies are all characterized in four separate human cell lines (HeLa, HEK-293, A-431, Hep-G2) and two rodent cell lines (NIH-3T3 (mouse), NBT-II (rat)) and covers targets with MW ~15-100kDa.

The antibodies are developed using a unique antigen design and are epitope mapped to define specificity. Furthermore, all of the panel members have been genetically validated for use in WB through the siRNA knock down technique to confirm target specificity.

Multiplexing

Our Loading Control Panel works well for fluorescence-based multiplex Western blotting, which is a time-saving alternative to chemiluminescent detection.

For multiplexing, choose a loading control antibody of a different isotype than the antibody targeting the protein of interest (when using mouse monoclonals) or simply combine any panel member with one of our rabbit Triple A Polyclonals™.

With suitable secondary antibodies conjugated to fluorescent dyes, the western blot protocol can be reduced to only one primary and one secondary incubation step and the two bands can be visualized in the same image.

BENEFITS OF USING LOADING CONTROLS

Normalizing protein levels using a loading control antibody is necessary to get reliable data when studying expression of a target protein in different samples.

The use of loading controls enables you to distinguish uneven sample loading from an actual difference in protein expression.

Loading controls can also be used to confirm equal transfer of protein from the gel across the whole membrane. This is particularly useful when comparing protein expressions over several samples.

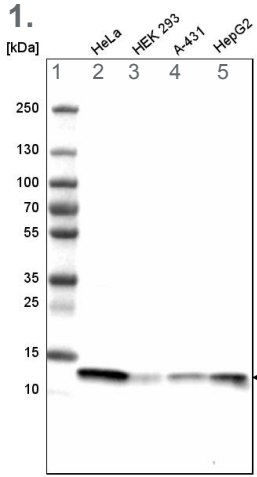
When choosing a loading control antibody, be sure to pick one that targets a protein of a different molecular weight than your protein of interest. By doing so you can easily differentiate between the two bands during blotting.

For optimal results, also check that the protein or RNA expression level of the loading control target is fairly high in the cell lines/ tissues that will be used.

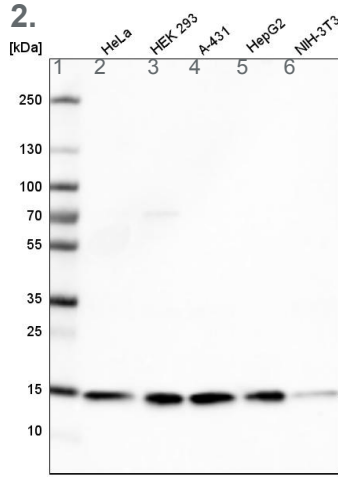
Cover image:

Left: Western blot analysis in human cell line HeLa, human cell line HEK 293, human cell line A-431, human cell line HepG2, mouse cell line NIH-3T3 and rat cell line NBT-II.

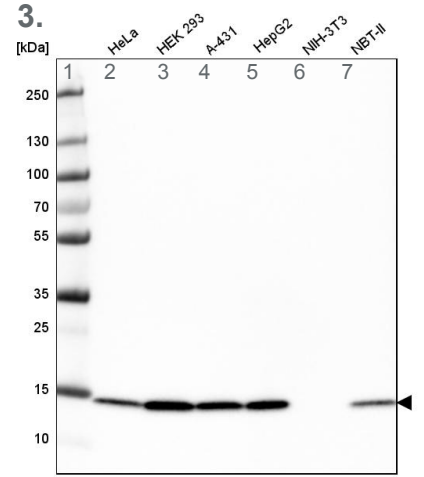
Right: Western blot analysis of extracts from U-251 cells, transfected with either control siRNA (siRNA ctrl) or target specific siRNA probes (siRNA#1, siRNA#2), using Anti-PPIB monoclonal antibody. Downregulation of antibody signal confirms target specificity. Remaining % intensity, relative control lane, is indicated. Anti-GAPDH monoclonal antibody was used as loading control.



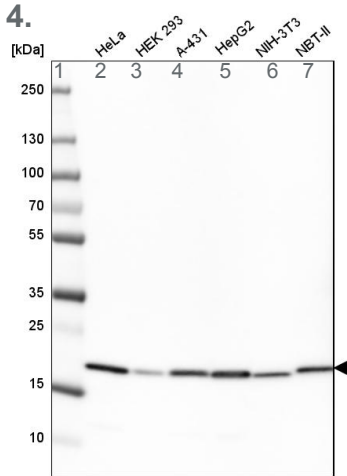
Anti-PFN1 Antibody (AMAb91181)
 Applications: IHC, WB*
 Isotype: IgG2a
 Reactivity: Human



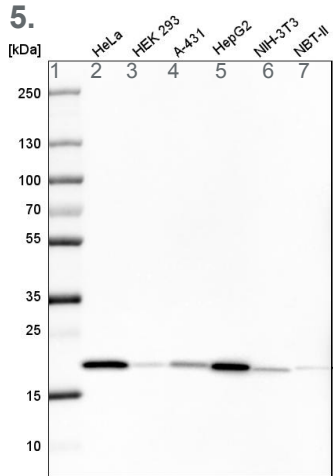
Anti-COX4I1 Antibody (AMAb91173)
 Applications: IHC, WB*
 Isotype: IgG2a
 Reactivity: Human and Mouse



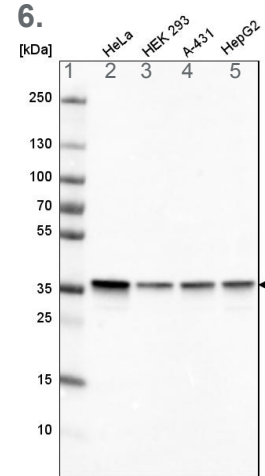
Anti-COX4I1 (AMAb91171)
 Applications: IHC, WB*, ICC-IF
 Isotype: IgG1
 Reactivity: Human and Rat



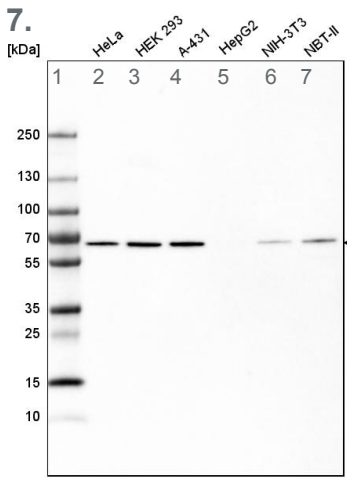
Anti-PPIB Antibody (AMAb91245)
 Applications: IHC*, WB*
 Isotype: IgG2a
 Reactivity: Human, Rat and Mouse



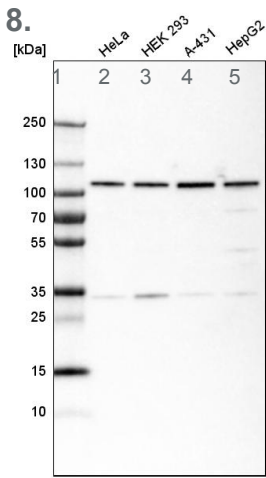
Anti-PPIB Antibody (AMAb91249)
 Applications: WB*
 Isotype: IgG2b
 Reactivity: Human, Rat and Mouse



Anti-GAPDH Antibody (AMAb91153)
 Applications: IHC, WB*, ICC-IF
 Isotype: IgG2a
 Reactivity: Human



Anti-HDAC1 Antibody (AMAb90781)
 Applications: IHC*, WB*, ICC-IF
 Isotype: IgG1
 Reactivity: Human, Rat and Mouse



Anti-HSP90B1 Antibody (AMAb91019)
 Applications: IHC*, WB*, ICC-IF
 Isotype: IgG2b
 Reactivity: Human

Figures 1-8.

Loading lanes:
 lane 1: Marker
 lane 2: Human cell line HeLa
 lane 3: Human cell line HEK 293
 lane 4: Human cell line A-431
 lane 5: Human cell line HepG2
 lane 6: Mouse cell line NIH-3T3
 lane 7: Rat cell line NBT-II

* Product with enhanced validation for the specific application.

ABOUT ATLAS ANTIBODIES

Atlas Antibodies is a Swedish biotechnology company that facilitates leading research worldwide through manufacturing and providing primary antibodies and protein standards for targeted proteomics using mass spectrometry.

VERY RELIABLE ANTIBODIES

Atlas Antibodies is the original manufacturer of over 21,000 primary antibodies targeting the majority of human proteins. Building on our heritage with the Human Protein Atlas project, we provide highly validated reagents that enable leading research in biology, diagnostics, and medicine. All our products are rigorously evaluated for specificity, reproducibility and performance and characterized in multiple applications. Our team of researchers develops the next generation of innovative and reliable tools, fundamental to advancing research in neuroscience, oncology, cell biology, stem cells and development.

CREATED BY THE HUMAN PROTEIN ATLAS

With our roots in the Human Protein Atlas project, an integration of antibody-based imaging, proteomics, and transcriptomics, our antibodies are affinity-purified, reproducible, selective, and specific for their target proteins through our enhanced validation process. Our Triple A Polyclonals™ are developed within the Human Protein Atlas project.

VALIDATED BY ENHANCED VALIDATION

We take great care to validate our antibodies in IHC, WB, and ICC-IF. Our antibodies are validated in all major human tissues and organs and 20 cancer tissues. Each antibody is supported by over 500 staining images. As an additional layer of security, we perform Enhanced Validation. By using 5 different enhanced validation methods we validate our antibodies for each combination of protein, sample, and application. Discover our Triple A Polyclonals™ and PrecisA Monoclonals™ antibodies targeting the majority of human proteins in cells, tissues, and organs.

EVIDENCED BY SCIENCE

Made by researchers for researchers our products are used all over the world and referenced in 1000s of scientific peer-reviewed papers.

WE SUPPORT YOUR RESEARCH

Our scientific content and newsletter provide you with timely information about new product releases, research highlights, and much more. In addition, from our website you can download informative white papers, protocols, guides, posters, infographics, roundups of recent research papers, read blog posts and interviews.

HOW TO BUY OUR PRODUCTS

Our products are available worldwide. We deliver to all destinations in Europe (excluding Russia), US, Canada, Australia, New Zealand and Israel. We expand our offering through trusted partners worldwide. You can shop our full catalog online or find your local supplier.

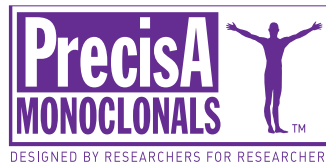
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Atlas Antibodies Advanced Polyclonals.

Triple A Polyclonals™ are rabbit polyclonal primary antibodies developed within the Human Protein Atlas project. IHC characterization data from 44 normal and 20 cancer tissues is available on the Human Protein Atlas portal. Available as **25 µL** and **100 µL** unit size.



Precise. Accurate. Targeted.

PrecisA Monoclonals™ are mouse monoclonal primary antibodies developed against a number of carefully selected targets. Clones are selected to recognize only unique non-overlapping epitopes and isotypes. Available as **25 µL** and **100 µL** unit size.



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