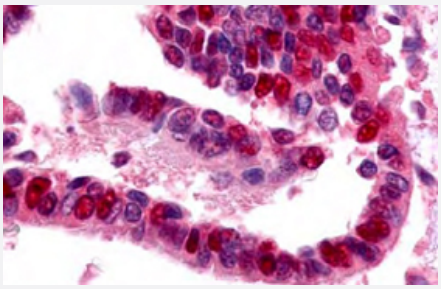
UBA1 polyclonal antibody

Catalog # PAB11287 Size 500 ug

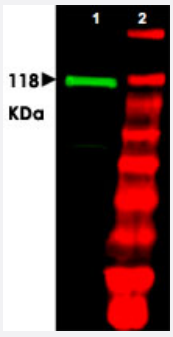
Applications

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



Immunohistochemistry of UBA1 polyclonal antibody (Cat # PAB11287) was used at a 10 ug/mL to detect UBA1 in a variety of tissues including adrenal, breast, colon (epithelium), kidney, liver, lung (respiratory epithelium), ovary (oocyte and endothelium), pancreas (isletand exocrine), placenta, prostate (epithelium), skin (epithelium), spleen (lymphocytes), stomach (chief), testis,thymus, tonsil, and uterus (glandular, stroma).
In many cells a punctate nuclear staining was observed.
Other cells showedboth cytoplasmic and nuclear staining.
This image shows UBA1 staining of human lung tissue.
Tissue was formalin-fixed and paraffin embedded.
Personal Communi-cation, TinaRoush, Life Span Biosciences, Seattle, WA.

Western Blot (Cell lysate)



Western blot using UBA1 polyclonal antibody (Cat # PAB11287) shows detection of a band at ~118 KDa corres-ponding to UBA1 (Lane 1 800 nm channel).
Approximately 35 ug of an A-431 whole cell lysate was separated on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose.
After blocking the membrane was probed with the primary antibody diluted to 1 : 1,000.
Incubation was for 2 h at room temperature followed by washes and reaction with a 1 : 10,000 dilution of IRDye™ 800 conjugated Gt-a-Rabbit IgG [H&L]MX10 for 45 min at room temperature.
Molecular weight markers are shown in lane 2 (700 nm channel).
IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.
IRDye is a trademark of LI-COR, Inc.

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Specification

Product Description	Rabbit polyclonal antibody raised against full length recombinant UBA1.
Immunogen	Recombinant GST fusion protein corresponding to full length human UBA1.
Host	Rabbit
Reactivity	Dog, Human, Mouse, Rabbit, Rat
Form	Lyophilized
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA (1:2000-1:10000) Western Blot (1:1000-1:5000) Immunohistochemistry (2-20 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C prior to restoration. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemistry of UBA1 polyclonal antibody (Cat # PAB11287) was used at a 10 ug/mL to detect UBA1 in a variety of tissues including adrenal, breast, colon (epithelium), kidney, liver, lung (respiratory epithelium), ovary (oocyte and endothelium), pancreas (isletand exocrine), placenta, prostate (epithelium), skin (epithelium), spleen (lymphocytes), stomach (chief), testis,thymus, tonsil, and uterus (glandular, stroma).
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- Enzyme-linked Immunoabsorbent Assay

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- Western Blot (Cell lysate)

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Gene Info — UBA1

Entrez GeneID	7317
Protein Accession#	P22314;NP_003325
Gene Name	UBA1
Gene Alias	A1S9, A1S9T, A1ST, AMCX1, GXP1, MGC4781, SMAX2, UBA1A, UBE1, UBE1X
Gene Description	ubiquitin-like modifier activating enzyme 1
Omim ID	314370
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene catalyzes the first step in ubiquitin conjugation to mark cellular p roteins for degradation. This gene complements an X-linked mouse temperature-sensitive defect in DNA synthesis, and thus may function in DNA repair. It is part of a gene cluster on chromosome Xp11.23. Alternatively spliced transcript variants that encode the same protein have been describ ed. [provided by RefSeq
Other Designations	A1S9T and BN75 temperature sensitivity complementing|OTTHUMP00000023197|OTTHUMP00 000023198|UBA1, ubiquitin-activating enzyme E1 homolog A|ubiquitin-activating enzyme E1

Publication Reference

- Large-scale characterization of HeLa cell nuclear phosphoproteins.

Beausoleil SA, Jedrychowski M, Schwartz D, Elias JE, Villen J, Li J, Cohn MA, Cantley LC, Gygi SP.

PNAS 2004 Aug; 101(33):12130.

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- Screening of Hsp105alpha-binding proteins using yeast and bacterial two-hybrid systems.

  Saito Y, Doi K, Yamagishi N, Ishihara K, Hatayama T.

  Biochemical and Biophysical Research Communications 2004 Feb; 314(2):396.

- A non-proteolytic role for ubiquitin in Tat-mediated transactivation of the HIV-1 promoter.

  Bres V, Kiernan RE, Linares LK, Chable-Bessia C, Plechakova O, Treand C, Emiliani S, Peloponese JM, Jeang KT, Coux O, Scheffner M, Benkirane M.

  Nature Cell Biology 2003 Aug; 5(8):754.

Pathway

- Ubiquitin mediated proteolysis

Disease

- Arthritis
- Genetic Predisposition to Disease
- Hypertension

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