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Datasheet for 600-401-BB5

ERAP1 Antibody

Overview

Description:	Anti-ERAP1 (RABBIT) Antibody - 600-401-BB5
Item No.:	600-401-BB5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The endoplasmic reticulum (ER) aminopeptidase 1 (ERAP1), a member of the peptidase M1 family, plays a central role in peptide trimming, a step required for the generation of most HLA class I-binding peptides (1,2). It is also designated as adipocyte-derived leucine aminopeptidase (A-LAP), puromycin-insensitive leucine-specific aminopeptidase (PILS-AP) and aminopeptidase regulator of TNFR1 shedding (ARTS-1) (3). ERAP1 is localized to the lumen of the ER and induced by interferon. It may be involved in the regulation of blood pressure through the inactivation of angiotensin II and/or the generation of bradykinin in the kidney (3,4).
Synonyms:	ERAP1 Antibody , ALAP, A-LAP, ARTS1, ERAAP, APPILS, ARTS-1, ERAAP1, PILSAP, PILS-AP, KIAA0525, UNQ584/PRO1154, Endoplasmic reticulum aminopeptidase 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ERAP1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ERAP1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the C-terminus of human ERAP.

Purity/Specificity:	Anti-ERAP1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. ERAP1 antibody is human and mouse reactive. At least two isoforms of ERAP1 are known to exist; this antibody will detect both isoforms. ERAP1 antibody is predicted to not cross-react with ERAP2.
Relevant Links:	• UniProtKB - Q9NZ08 • GeneID - 51752 • NCBI - NP_057526

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ERAP1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 107 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IF:	User Optimized
IHC:	User Optimized
WB:	User Optimized

Formulation

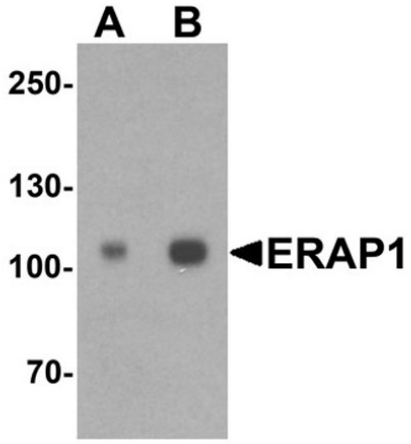
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

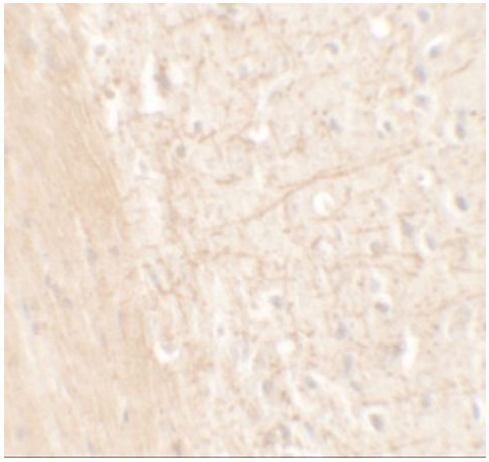
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

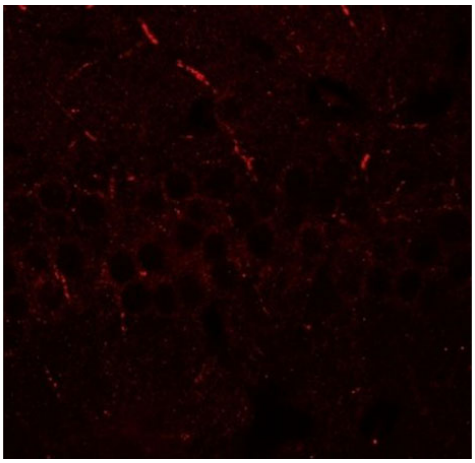
Images



Western Blot
Western blot of ERAP1.
Load: SK-N-SH cell lysate.
Primary Antibody: ERAP1 antibody at (A) 1 and (B) 2 µg/ml.



Immunohistochemistry
Immunohistochemistry of ERAP1.
Tissue: mouse brain tissue.
Primary Antibody: ERAP1 antibody at 5 µg/mL.



Immunofluorescence Microscopy
Immunofluorescence of ERAP1.
Tissue: mouse brain tissue.
Primary Antibody: ERAP1 antibody at 20 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.