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Datasheet for 200-301-P39

Involucrin Antibody

Overview

Description:	Anti-Involucrin (MOUSE) Antibody - 200-301-P39
Item No.:	200-301-P39
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Pig
Host Species:	Mouse

Product Details

Background:	Involucrin is a keratinocyte protein that first appears in the cell cytosol, but ultimately becomes cross-linked to membrane proteins by transglutaminase. The gene consists of 585 amino acids, 390 of which form a central decapeptide repeat, rich in glutamine and glutamic acid. The involucrin gene, encoding a protein of the terminally differentiated keratinocyte, is polymorphic in the human. Involucrin has previously been mapped to chromosome 1q21. The epidermal protein involucrin has been remodeled in the higher primates. And the existence of two populations of East Asian involucrin alleles gives support for the existence of a Eurasian stem lineage from which Caucasians and a part of the Asian population originated. This antibody is suitable for researchers interested in skin cell research.
Synonyms:	INVO, IVL, Involucrin Antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	SY5
Format:	IgG1

Target Details

Gene Name:	IVL
Reactivity:	Human, Pig
Immunogen Type:	Other

Immunogen:	Involucrin antibody was produced in mice by repeated immunizations with human involucrin.
Purity/Specificity:	Anti-Involucrin antibody was purified from mouse ascites by protein A chromatography. This product reacts with human and pig. Cross reactivity with Involucrin from other sources has not been determined.
Relevant Links:	• UniProtKB - P07476 • GeneID - 3713 • NCBI - NP_005538.2

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Involucrin is tested for Immunohistochemistry -P, -F, Immunocytochemistry, and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~68.5 kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000
IHC:	1:100-1:500
WB:	1ug/ml

Formulation

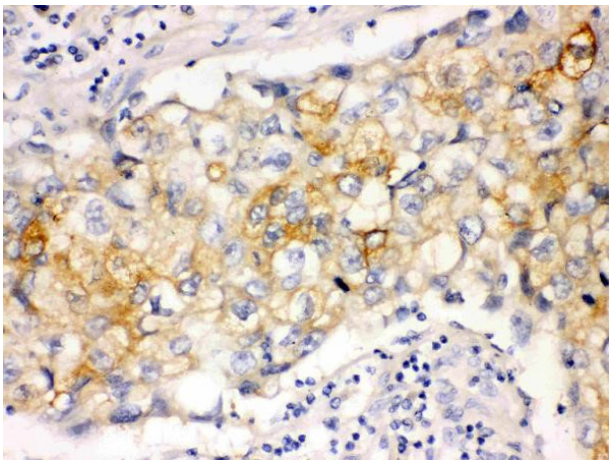
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1.2% sodium acetate
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	2mg BSA
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Neutral PBS

Shipping & Handling

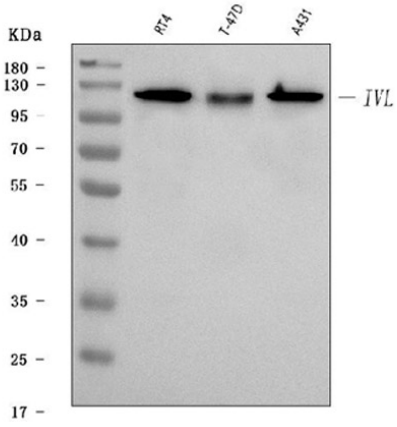
Shipping Condition:	Ambient

Storage Condition:	Store vial at 4° 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



Immunohistochemistry
Immunohistochemistry analysis of Involucrin using anti-Involucrin antibody. Involucrin was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml mouse anti-Involucrin Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



Western Blot
Western blot analysis of Involucrin using anti-Involucrin antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30µg of sample under reducing conditions.
Lane 1: human RT4 whole cell lysates, Lane 2: human T-47D whole cell lysates, Lane 3: human A431 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with affinity purified mouse anti-Involucrin antigen monoclonal antibody at 1 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at 1:10,000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Involucrin at approximately 68 kDa. The expected band size for Involucrin is at 68 kDa.

Disclaimer

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