

Product datasheet

Anti-beta Actin antibody [BLR057F] - BSA free ab272085

Recombinant

[4 Images](#)

Overview

Product name	Anti-beta Actin antibody [BLR057F] - BSA free
Description	Rabbit monoclonal [BLR057F] to beta Actin - BSA free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human beta Actin aa 1-50. The exact sequence is proprietary. (NP_001092.1). Database link: P60709
Positive control	IHC-P: Human ovarian carcinoma tissue. ICC: HeLa cells. WB: U2-OS, A549, K562, HeLa, HEK-293T, Jurkat, TCMK-1 and NIH/3T3 cell lysates.
General notes	ab272085 is the BSA-free version of ab252556 . This product is sold under License from Bethyl Laboratories, Inc.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 8.20 Preservative: 0.09% Sodium azide Constituent: 99% Borate buffered saline
Purification notes	Recombinant antibody was purified from cell culture supernatant.
Clonality	Monoclonal
Clone number	BLR057F
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab272085 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC		Use at an assay dependent concentration.
WB		1/1000. Predicted molecular weight: 41 kDa.

Target

Function

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

Involvement in disease

Defects in ACTB are a cause of dystonia juvenile-onset (DYTJ) [MIM:607371]. DYTJ is a form of dystonia with juvenile onset. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYTJ patients manifest progressive, generalized, dopa-unresponsive dystonia, developmental malformations and sensory hearing loss.

Sequence similarities

Belongs to the actin family.

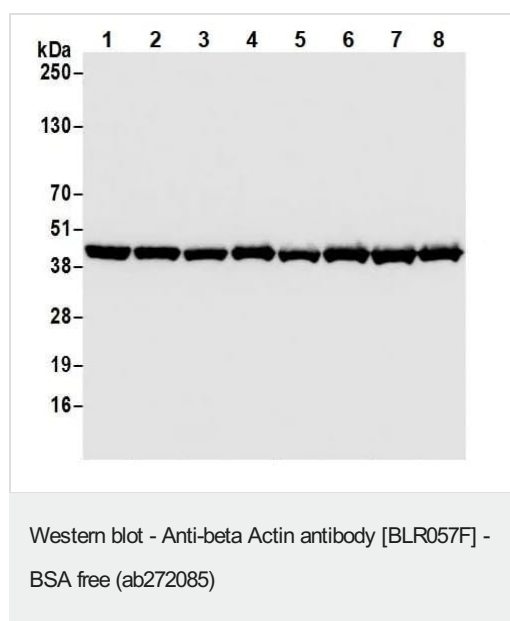
Post-translational modifications

ISGylated.

Cellular localization

Cytoplasm > cytoskeleton. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Images



All lanes : Anti-beta Actin antibody [BLR057F] (**ab252556**) at 1/1000 dilution

Lane 1 : U2-OS (human bone osteosarcoma epithelial cell line) whole cell lysate

Lane 2 : A549 (human lung carcinoma cell line) whole cell lysate

Lane 3 : K562 (human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate

Lane 4 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 5 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 6 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 7 : TCMK-1 (mouse kidney epithelial cell line) whole cell lysate

Lane 8 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate

Lysates/proteins at 50 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG

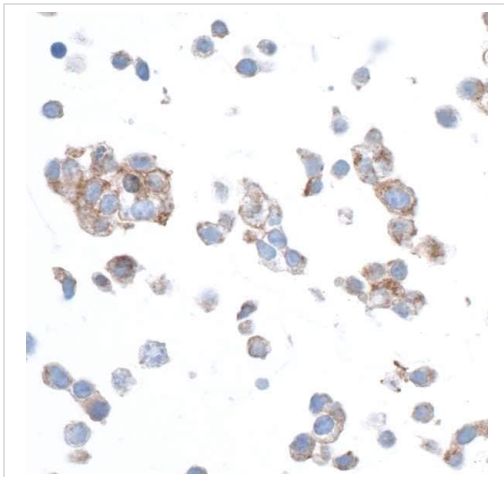
Developed using the ECL technique.

Predicted band size: 41 kDa

Exposure time: 1 second

This data was developed using the same antibody clone in a different buffer formulation containing Borate buffered saline, BSA, glycerol and sodium azide ([ab252556](#)).

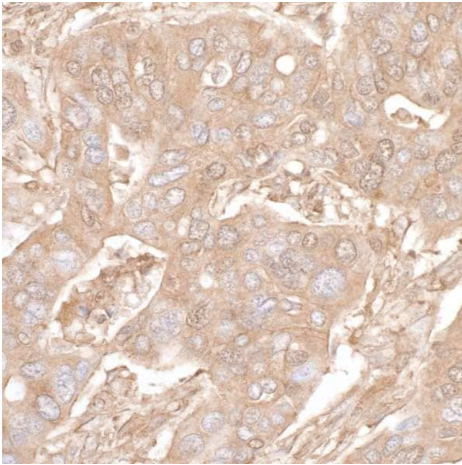
Lysates prepared using NETN lysis buffer.



FFPE HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for beta Actin using [ab252556](#) at 1/200 dilution in ICC/IF, followed by HRP conjugated Goat Anti-Rabbit IgG. Substrate: DAB.

This data was developed using the same antibody clone in a different buffer formulation containing Borate buffered saline, BSA, glycerol and sodium azide ([ab252556](#)).

Immunocytochemistry - Anti-beta Actin antibody
[BLR057F] - BSA free (ab272085)



Formalin-fixed, paraffin-embedded human ovarian carcinoma tissue stained for beta Actin using **ab252556** at 1/400 dilution in immunohistochemical analysis, followed by HRP conjugated. DAB staining.

This data was developed using the same antibody clone in a different buffer formulation containing Borate buffered saline, BSA, glycerol and sodium azide (**ab252556**).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta Actin antibody [BLR057F] - BSA free (ab272085)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-beta Actin antibody [BLR057F] - BSA free (ab272085)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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