

Product datasheet

Anti-beta Actin antibody [BLR057F] ab252556

Recombinant

[2 References](#) [4 Images](#)

Overview

Product name	Anti-beta Actin antibody [BLR057F]
Description	Rabbit monoclonal [BLR057F] to beta Actin
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC
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	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: 7.8 Preservative: 0.09% Sodium azide Constituents: 99% Borate buffered saline, 0.1% BSA
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 ab252556 in the following tested applications.

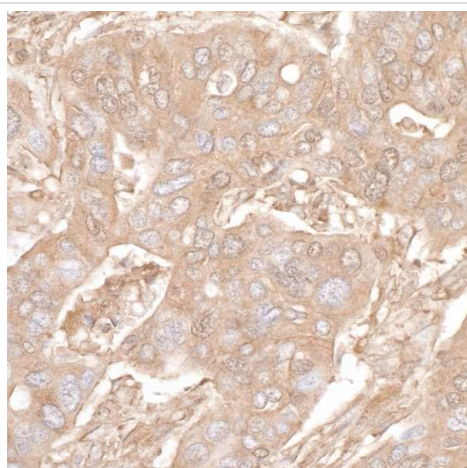
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 41 kDa.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC		1/100 - 1/500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE cell sections.

Target

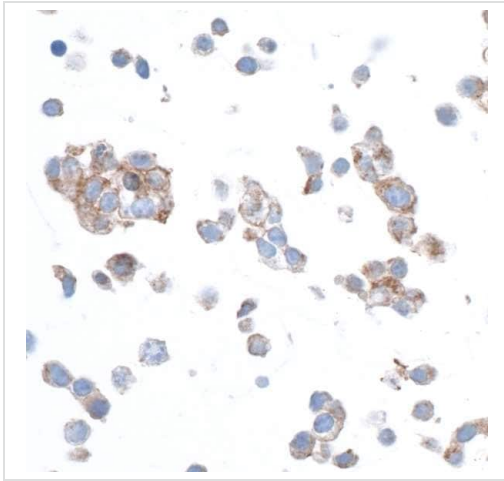
Function	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
Involvement in disease	Defects in ACTB are a cause of dystonia juvenile-onset (DYTJ) [MIM:607371]. DYTJ is a form of dystonia with juvenile onset. 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



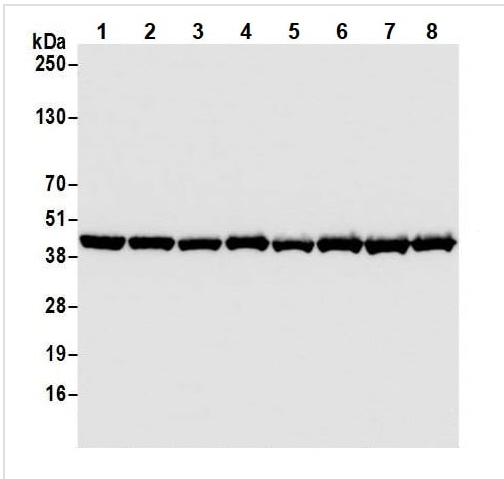
Formalin-fixed, paraffin-embedded human ovarian carcinoma tissue stained for beta Actin using ab252556 at 1/400 dilution in immunohistochemical analysis, followed by HRP conjugated. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta Actin antibody [BLR057F] (ab252556)



Immunocytochemistry - Anti-beta Actin antibody
[BLR057F] (ab252556)

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.



Western blot - Anti-beta Actin antibody [BLR057F]
(ab252556)

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 at 1/1000 dilution





Developed using the ECL technique.

Predicted band size: 41 kDa

Exposure time: 1 second

Lysates prepared using NETN lysis buffer.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-beta Actin antibody [BLR057F] (ab252556)

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