

Product datasheet

Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] ab255610

Recombinant RabMAb

★★★★★ [2 Abreviews](#) [2 References](#) [10 Images](#)

Overview

Product name	Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10]
Description	Rabbit monoclonal [EPR22866-10] to Stanniocalcin 2/STC-2
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HepG2, MCF7, HT-29, 293T, HCT116 and Human breast cancer lysates. IHC-P: Human lung cancer and Human breast cancer tissues. ICC/IF: T-47D and HepG2 cells. Flow Cyt (intra): T-47D and HepG2 cells. IP: T-47D cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR22866-10
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab255610 in the following tested applications.

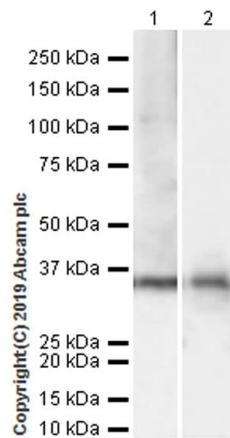
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/50.
WB		1/1000. Detects a band of approximately 33, 35 kDa (predicted molecular weight: 33 kDa).
IHC-P		1/200. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/50.
IP		1/30.

Target

Function	Has an anti-hypocalcemic action on calcium and phosphate homeostasis.
Tissue specificity	Expressed in a variety of tissues including muscle, heart, pancreas, kidney, spleen, prostate, small intestine, colon and peripheral blood leukocytes.
Sequence similarities	Belongs to the stanniocalcin family.
Cellular localization	Secreted.

Images



Western blot - Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

All lanes : Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610) at 1/1000 dilution

Lane 1 : HCT116 (human colorectal carcinoma epithelial cell), whole cell lysate

Lane 2 : Human breast cancer tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

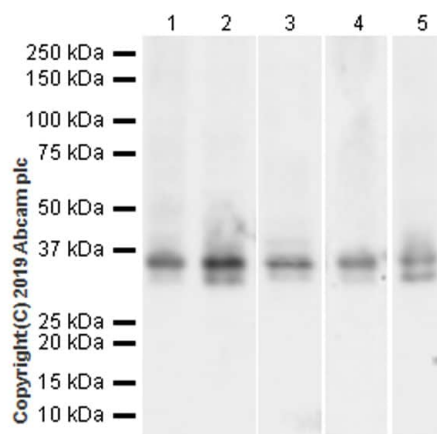
Predicted band size: 33 kDa

Observed band size: 35 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

The expression profile observed is consistent with what has been described in the literature (PMID:15367391, 25463045, 26361149).

Exposure time: Lane 1: 3 minutes; Lane 2: 48 seconds.



Western blot - Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

All lanes : Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate

Lane 2 : HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate

Lane 3 : MCF7 (human breast adenocarcinoma epithelial cell), whole cell lysate

Lane 4 : HT-29 (human colorectal adenocarcinoma epithelial cell), whole cell lysate

Lane 5 : 293T (human embryonic kidney epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

Lanes 1-2 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#))

Lanes 3-5 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 33 kDa

Observed band size: 33-35 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

The expression profile observed is consistent with what has been described in the literature, the dual bands caused by different posttranslational modifications (PMID: 15367391, 25463045, 26361149).

Exposure time: Lane 1-2: 48 seconds; Lane 3: 26 seconds; Lane 4: 114 seconds; Lane 5: 15 seconds.



Immunoprecipitation - Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

STC2 was immunoprecipitated from 0.35 mg T-47D (human ductal breast epithelial tumor epithelial cell) whole cell lysate with ab255610 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab255610 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

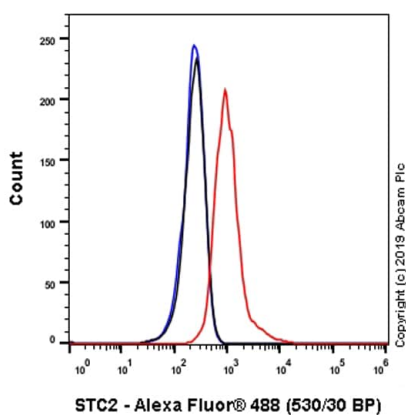
Lane 1: T-47D (human ductal breast epithelial tumor epithelial cell) whole cell lysate 10ug

Lane 2: ab255610 IP in T-47D whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab255610 in T-47D whole cell lysate

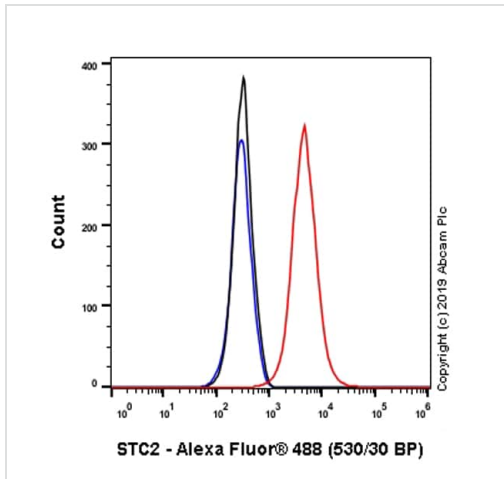
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.



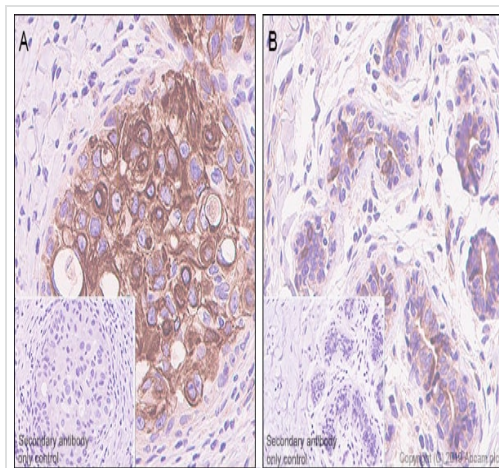
Flow Cytometry (Intracellular) - Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized HepG2 (human hepatocellular carcinoma epithelial cell) cells labelling STC2 with ab255610 at 1/50 dilution (Red) compared with a Rabbit monoclonal IgG ([ab172730](#)) / Black isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized T-47D (human ductal breast epithelial tumor epithelial cell) cells labelling STC2 with ab255610 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) / Black isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

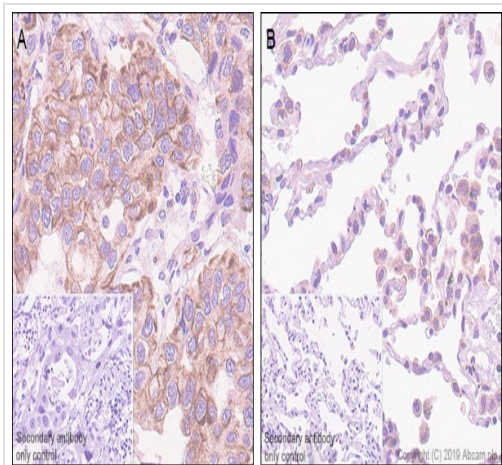


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

Immunohistochemical analysis of paraffin-embedded Human breast cancer (A) and its adjacent noncancerous breast tissue (B) tissue labeling STC2 with ab255610 at 1/ 200 dilution (2.29ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Strong cytoplasmic staining in human breast cancer tissue (A) while weak staining in its adjacent noncancerous breast tissue (B) (PMID: 18492817) is observed. The section was incubated with ab255610 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

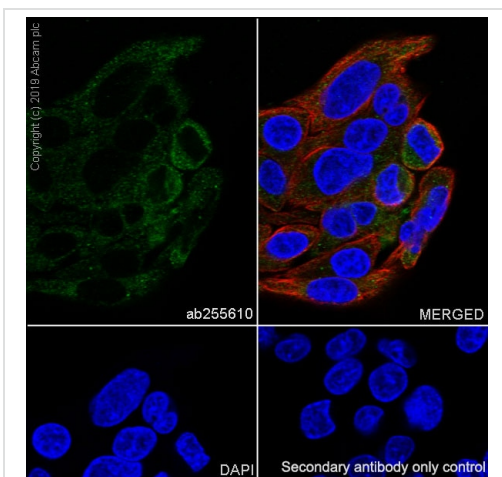


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

Immunohistochemical analysis of paraffin-embedded Human lung cancer (A) and its adjacent noncancerous lung tissue (B) tissue labeling STC2 with ab255610 at 1/ 200 dilution (2.29ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Strong cytoplasmic staining in human lung cancer tissue (A) while weak staining in its adjacent noncancerous lung tissue (B) (PMID: 25463045) is observed. The section was incubated with ab255610 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

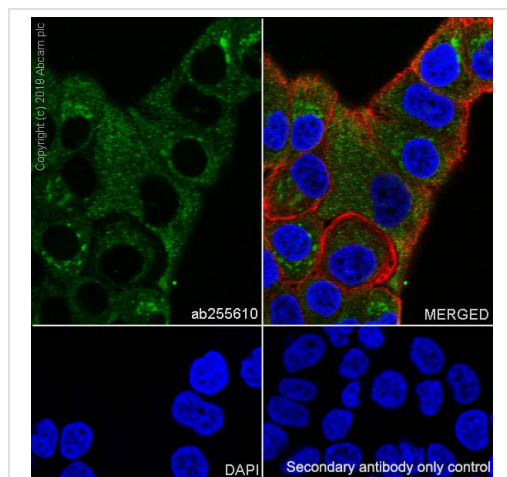
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HepG2 (human hepatocellular carcinoma epithelial cell) cells labelling STC2 with ab255610 at 1/50 (9 ug/ml) dilution, followed by **ab150077** AlexaFluor® 488 Goat anti-Rabbit secondary antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing cytoplasmic staining in HepG2 cell line. Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** AlexaFluor® 488 Goat anti-Rabbit secondary at 1/1000 (2 ug/ml) dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized T-47D (human ductal breast epithelial tumor epithelial cell) cells labelling STC2 with ab255610 at 1/50 (9 ug/ml) dilution, followed by **ab150077** AlexaFluor® 488 Goat anti-Rabbit secondary antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing cytoplasmic staining in T-47D cell line. Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is Ab255610 anti-STC2 **ab150077** AlexaFluor® 488 Goat anti-Rabbit secondary at 1/1000 (2 ug/ml) dilution.

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-Stanniocalcin 2/STC-2 antibody [EPR22866-10] (ab255610)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors