Product Datasheet

PRC1 Antibody (EP1513Y)
NB110-57434

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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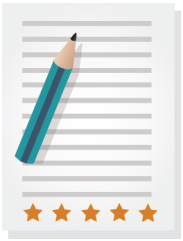
Updated 6/27/2018 v.20.1



NB110-57434

PRC1 Antibody (EP1513Y)

Product Information

Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	EP1513Y
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Protein A or G purified
Buffer	49% PBS, 0.05% BSA and 50% Glycerol
Target Molecular Weight	72 kDa

Product Description

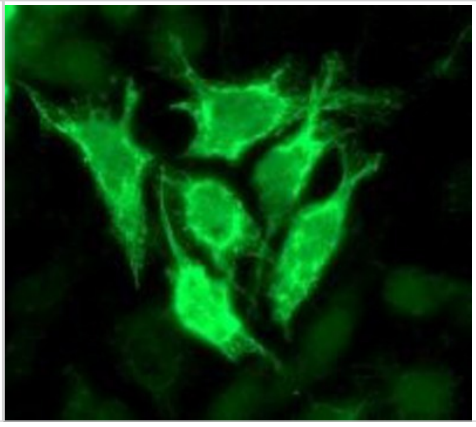
Host	Rabbit
Gene ID	9055
Gene Symbol	PRC1
Species	Human, Mouse, Rat
Reactivity Notes	Human, Mouse, Rat. Cross reactivity determined by Western Blot only.
Immunogen	A synthetic peptide corresponding to residues on human PRC1 was used as an immunogen.
Notes	Produced using Abcam's RabMab® technology. RabMab® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487.

Product Application Details

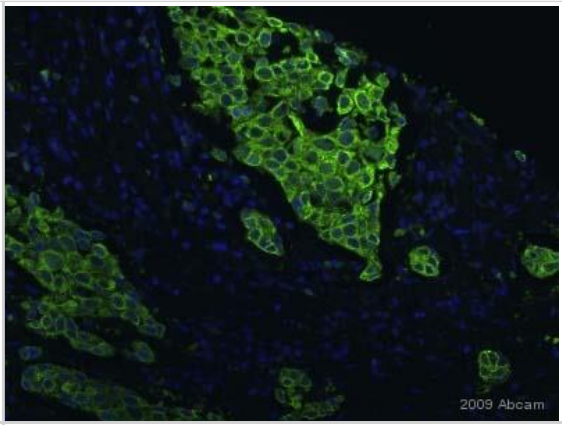
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-10000, Flow Cytometry 1:20, Immunohistochemistry 1:100-250, Immunocytochemistry/Immunofluorescence 1:100-250, Immunoprecipitation 1:10, Immunohistochemistry-Paraffin 1:100-250
Application Notes	In Western blot this antibody detects a band at approximately 72 kDa.

Images

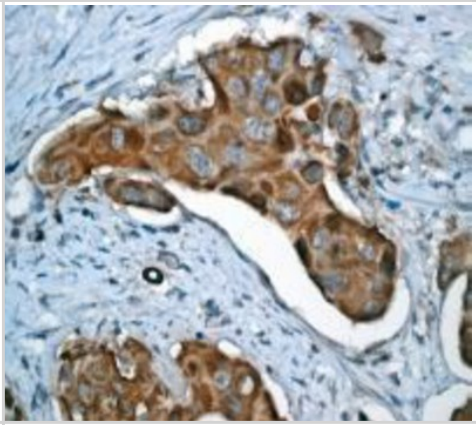
Western Blot: PRC1 Antibody (EP1513Y) [NB110-57434] HeLa cells.



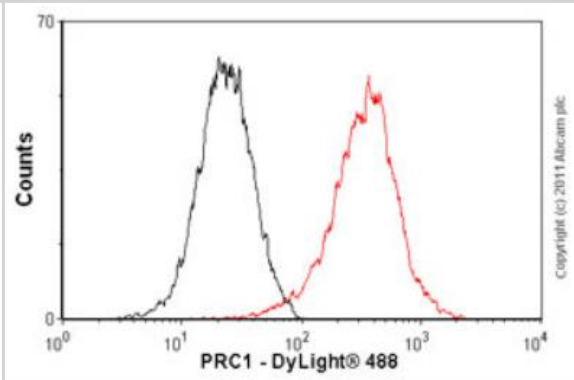
Immunocytochemistry/Immunofluorescence: PRC1 Antibody (EP1513Y) [NB110-57434] - Staining PRC1 in human breast cancer cells. The cells were paraformaldehyde fixed and blocked in 1 percent serum for 1 hour at 37C without permeation step. The primary antibody was diluted 1/100 (PBS) and incubated with sample for 1 hour at 20C. An Alexa Fluor 488 conjugated donkey polyclonal to rabbit IgG, diluted 1/200 was used as secondary was used as secondary.



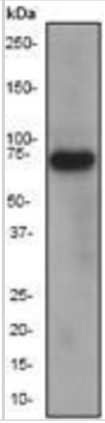
Immunohistochemistry: PRC1 Antibody (EP1513Y) [NB110-57434] - Immunohistochemical staining of paraffin-embedded human cervical carcinoma using anti-PRC1 (cat. #110-57434).



Flow Cytometry: PRC1 Antibody (EP1513Y) [NB110-57434] - Overlay histogram showing HeLa cells (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody for 30 min at 22C. The secondary antibody used was DyLight 488 goat anti-rabbit IgG (H+L) at 1/500 dilution for 30 min at 22C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1ug/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.



Western Blot: PRC1 Antibody (EP1513Y) [NB110-57434] - HeLa cell lysate using a 1:10,000 dilution.



Procedures

Immunohistochemistry Protocol for PRC1 Antibody (NB110-57434)
Immunohistochemistry Protocol for Paraffin-embedded Tissues

1. Solutions and reagents
1.1. Xylene
1.2. Ethanol, anhydrous denatured, histological grade (100%, 95%, 70%)
1.3. Washing buffer:
TBST washing buffer: 1XTBS/0.1% Tween-20
To prepare stock solution of 10X TBS: add 24.2 g Trizma base and 80 g sodium chloride to 1L of dH2O. Adjust pH to 7.6.
Working solution. 1XTBST/0.1% Tween-20: add 100ml 10XTBS to 900 ml dH2O. Add 1 ml Tween-20 and mix well.
1.4. Distilled water (dH2O)
1.5. Antigen Retrieval Solution:
0.01M Sodium Citrate Buffer, pH 6.0
To prepare stock solutions:
Solution A. 0.1 M citric acid solution: dissolve 21.0 g of citric acid, monohydrate (C6H8O7.H2O) in 1 liter of dH2O.
Solution B. 0.1M sodium citrate solution: dissolve 29.4 g trisodium citrate dihydrate (C6H5Na3O7.2H2O) in 1 liter of dH2O.
Working solution: Add 9 ml of Stock solution A and 41 ml of stock solution B to 450 ml of dH2O. Adjust pH to 6.0.
1.6. 3% Hydrogene Peroxide
1.7. Blocking buffer:
PBS (Dulbeccos Phosphate Buffered Salts, 1X, catalog #21-031-CV from Mediatech, Inc.) + 10% serum (serum origin depends on the host of the secondary antibody)
1.8. Hematoxylin QS (catalog #H-3404 from Vector Laboratories, Inc.)
1.9. Permanent Mounting medium (VectaMount, catalog# H-5000 Vector Laboratories, Inc.)

2. Protocol

2.1. Deparaffinization/Rehydration
2.1.1. Heat slides in an oven at 65C for 1 hour.
2.1.2. De-paraffinize/hydrate using the following series of washes: two Xylene washes (5 min each), followed by two 100% ethanol rinses (5 min each), followed by 95% ethanol, 70% ethanol, 50% ethanol, 30% ethanol, followed by H2O and a TBST wash for 5 min on a shaker.
2.2. Antigen Retrieval
2.2.1. Immerse slides into staining dish containing Antigen Retrieval Solution.
2.2.2. Place covered staining dish into the rice cooker. Add 120 ml of dH2O.
2.2.3. When cook is turned to warm (about 20 to 30 min), unplug the cooker and remove the staining dish to the bench top.
2.2.4. Allow to cool down, without cover, for 20 min.
2.3. Staining
2.3.1. Wash slides with TBST for 5 min on a shaker.
2.3.2. Inactivate endogenous peroxidase by covering tissue with 3% hydrogen peroxide for 10 min.
2.3.3. Wash slides three times with TBST (3 min each on a shaker).
2.3.4. Block slides with the blocking solution for 1 hour.
2.3.5. Dilute primary antibody in the blocking buffer per recommendation on the data sheet.
2.3.6. Apply primary antibody to each section and incubate overnight in the humidified chamber (4C).
2.3.7. Wash slides three times with TBST (3 min each on a shaker).
2.3.8. Apply to each section secondary HRP-conjugated anti-rabbit antibody diluted in the blocking solution per manufacturers recommendation; incubate for 1 hour at room temperature.
2.3.9. Wash slides three times with TBST (3 min each on a shaker).
2.3.10. Add freshly prepared DAB substrate to the sections.
2.3.11. Incubate tissue sections with the substrate at room temperature until suitable staining develops (generally 2 to 5 min).
2.3.12. Rinse sections with water.
2.3.13. Counterstain with Hematoxylin.
2.3.14. Rinse sections with water.
2.3.15. Dehydrate samples using two rinses with 100% Ethanol (20 dips per rinse) followed by two rinses with Xylene (30 dips per rinse).
2.3.16. Mount coverslips on slides using Permount medium.

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