


## Product datasheet

### Anti-Radixin/RDX antibody [EP1862Y] ab52495

Recombinant RabMAb

★★★★★ [4 Abreviews](#) [22 References](#) [5 Images](#)

#### Overview

<b>Product name</b>	Anti-Radixin/RDX antibody [EP1862Y]
<b>Description</b>	Rabbit monoclonal [EP1862Y] to Radixin/RDX
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), ICC/IF, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide within Human Radixin/RDX aa 350-450 (N terminal). The exact sequence is proprietary.
<b>Positive control</b>	WB: HeLa cell lysate. IHC-P: Paraffin embedded human ovarian carcinoma. Flow Cyt (intra): HeLa cells. ICC/IF: Mcf7 cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

Clone number	EP1862Y
Isotype	IgG

## Applications

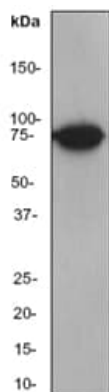
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab52495 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (2)	Use a concentration of 5 µg/ml.
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 80 kDa (predicted molecular weight: 80 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Function</b>	Probably plays a crucial role in the binding of the barbed end of actin filaments to the plasma membrane.
<b>Involvement in disease</b>	Defects in RDX are the cause of deafness autosomal recessive type 24 (DFNB24) [MIM:611022]. DFNB24 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.
<b>Sequence similarities</b>	Contains 1 FERM domain.
<b>Domain</b>	The N-terminal domain interacts with the C-terminal domain of LAYN. An interdomain interaction between its N-terminal and C-terminal domains inhibits its ability to bind LAYN. In the presence of acidic phospholipids, the interdomain interaction is inhibited and this enhances binding to LAYN.
<b>Post-translational modifications</b>	Phosphorylated by tyrosine-protein kinases.
<b>Cellular localization</b>	Cell membrane. Cytoplasm > cytoskeleton. Cleavage furrow. Highly concentrated in the undercoat of the cell-to-cell adherens junction and the cleavage furrow in the interphase and mitotic phase, respectively.

## Images



Western blot - Anti-Radixin/RDX antibody  
[EP1862Y] (ab52495)

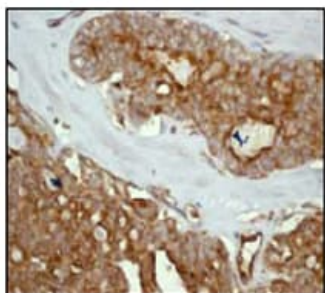
Anti-Radixin/RDX antibody [EP1862Y] (ab52495) at 1/1000 dilution  
+ HeLa cell lysate at 10 µg

### Secondary

HRP labeled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 80 kDa

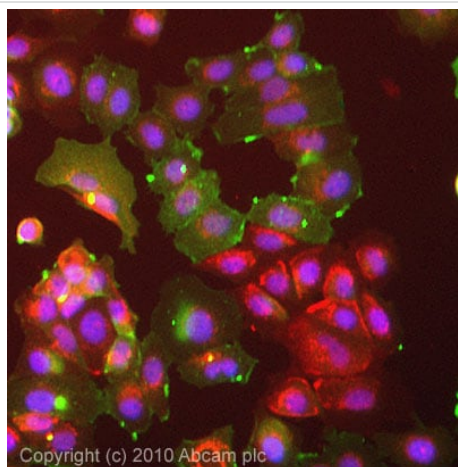
**Observed band size:** 80 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Radixin/RDX antibody  
[EP1862Y] (ab52495)

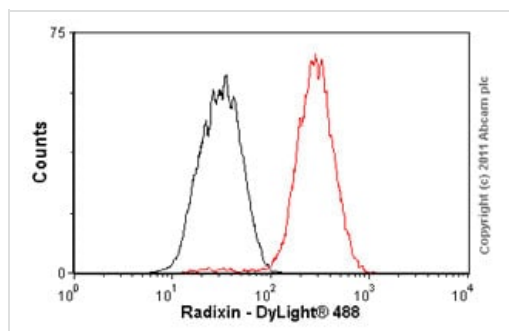
Immunohistochemical staining of paraffin-embedded human ovarian carcinoma using ab52495 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Radixin/RDX antibody [EP1862Y] (ab52495)

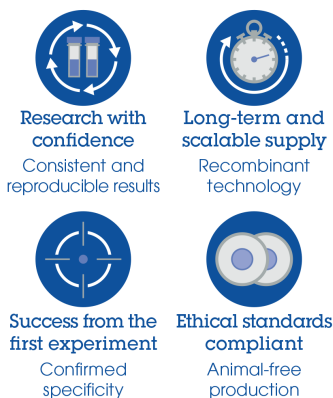
ICC/IF image of ab52495 stained Mcf7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab52495, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Flow Cytometry (Intracellular) - Anti-Radixin/RDX antibody [EP1862Y] (ab52495)

Overlay histogram showing HeLa cells stained with ab52495 (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 (ab52495, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed.

### Why choose a recombinant antibody?



Anti-Radixin/RDX antibody [EP1862Y] (ab52495)

**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