abcam

Product datasheet

Anti-AP2 alpha + beta antibody [A6/2/2] ab61

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Overview

Product name	Anti-AP2 alpha + beta antibody [A6/2/2]
Description	Mouse monoclonal [A6/2/2] to AP2 alpha + beta
Host species	Mouse
Specificity	Reacts with both AP-2 alpha and beta forms. As the antibody also recognises AP2 beta, the epitope it recognises is probably the last 8 amino acids as these are common between alpha and beta.
Tested applications	**Suitable for:** Flow Cyt, WB, ELISA, IHC-P, RIA, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	C-terminal peptide of AP-2 alpha (PNSHTDNNAKSSDKEEKHRK).
Positive control	Raji cells or breast carcinoma

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 or -80°C. Avoid freeze / thaw cycle.
Purity	Protein A purified
Clonality	Monoclonal
Clone number	A6/2/2
Myeloma	NS0
Isotype	IgG1
Light chain type	unknown

Applications

Our Abpromise guarantee covers the use of **ab61** 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		Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB	★★★★☆	Use at an assay dependent concentration. Predicted molecular weight: 48 kDa.
ELISA		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol.
RIA		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 1 µg/ml.

Target

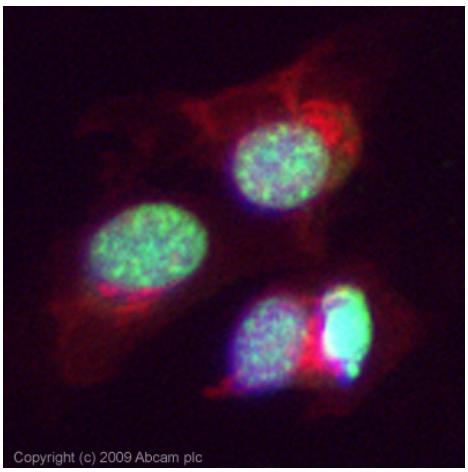
Relevance

The AP2 proteins are normally expressed in ectodermally derived vertebrate tissues where they are necessary for normal growth and development. The factors have also been implicated in the control of cell proliferation, viral transformation, and oncogenesis. AP2 seems to play in important role in human breast cancer. AP2 alpha is the only AP2 protein required for early morphogenesis of the lens vesicle. AP2 beta appears to be required for normal face and limb development and for proper terminal differentiation and function of renal tubular epithelia

Cellular localization

Nuclear

Images



Immunocytochemistry/ Immunofluorescence - Anti-AP2 alpha + beta antibody [A6/2/2] (ab61)

ICC/IF image of ab61 stained HeLa cells. The cells were 4% PFA 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 (ab61, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Mouse 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.

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