abcam

Product datasheet

Alexa Fluor® 647 Anti-B7H4 antibody [EPR20236] ab225488

Recombinant RabMAb

2 Images

Overview

Product name Alexa Fluor® 647 Anti-B7H4 antibody [EPR20236]

Description Alexa Fluor® 647 Rabbit monoclonal [EPR20236] to B7H4

Host species Rabbit

Conjugation Alexa Fluor® 647. Ex: 652nm. Em: 668nm

Tested applications Suitable for: IHC-P Species reactivity Reacts with: Human

Immunogen Recombinant fragment within Human B7H4 aa 1-250. The exact immunogen sequence used to

> generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support

team to discuss your requirements.

Database link: Q7Z7D3

Run BLAST with Run BLAST with

Positive control IHC-P: human breast cancer tissue sections

General notes This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

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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.

Avoid freeze / thaw cycle. Store In the Dark.

Storage buffer pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS

Purity Protein A purified

Clonality Monoclonal
Clone number EPR20236

Isotype IgG

Applications

Target

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab225488 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
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Function	Negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation,
	exterior and estimated development of extension. When a supressed on the cell surface of times.

cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, plays an important role, together with regulatory T-cells (Treg), in the suppression of tumor-associated antigen-specific T-cell immunity. Involved in promoting epithelial cell

transformation.

Tissue specificity Overexpressed in breast, ovarian, endometrial, renal cell (RCC) and non-small-cell lung cancers

(NSCLC). Expressed on activated T- and B-cells, monocytes and dendritic cells, but not expressed in most normal tissues (at protein level). Widely expressed, including in kidney, liver,

lung, ovary, placenta, spleen and testis.

Sequence similarities Belongs to the immunoglobulin superfamily. BTN/MOG family.

Contains 2 lg-like V-type (immunoglobulin-like) domains.

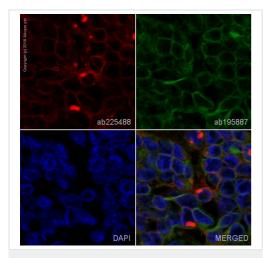
Post-translational

modifications

N-glycosylated.

Cellular localizationCell membrane. Expressed at the cell surface. A soluble form has also been detected.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Alexa Fluor® 647 Anti-B7H4 antibody [EPR20236] (ab225488)

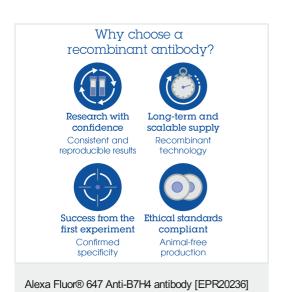
IHC image of B7H4 staining in a section of formalin-fixed paraffinembedded human breast cancer*.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) in a Biocare Medical NxGen pressure cooker using retrieval settings of 110°C for 20 minutes. Non-specific protein-protein interactions were then blocked in TBS containing 0.025% (v/v) Triton X-100, 0.3M (w/v) glycine and 1% (w/v) BSA for 1h at room temperature. The section was then incubated overnight at +4°C in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA with ab225488 at 1/1000 dilution (shown in red) and counterstained using ab195887, Mouse monoclonal to alpha Tubulin (Alexa Fluor[®] 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Fluoromount[®].

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.



(ab225488)

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