

Product datasheet

HRP Anti-Nrf2 antibody [EP1808Y] ab194986

Recombinant RabMAb

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Overview

Product name	HRP Anti-Nrf2 antibody [EP1808Y]
Description	HRP Rabbit monoclonal [EP1808Y] to Nrf2
Host species	Rabbit
Conjugation	HRP
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Does not react with: Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as ab167152)
Positive control	IHC/P: human breast adenocarcinoma tissue sections.
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. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 1% BSA, 30% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EP1808Y
Isotype	IgG

Applications

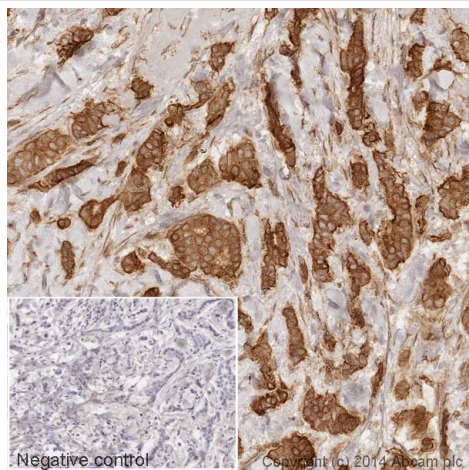
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab194986 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/500. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. ab199507 - Rabbit monoclonal IgG (HRP), is suitable for use as an isotype control with this antibody.

Target

Function	Transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. Important for the coordinated up-regulation of genes in response to oxidative stress. May be involved in the transcriptional activation of genes of the beta-globin cluster by mediating enhancer activity of hypersensitive site 2 of the beta-globin locus control region.
Tissue specificity	Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.
Sequence similarities	Belongs to the bZIP family. CNC subfamily. Contains 1 bZIP domain.
Domain	Acidic activation domain in the N-terminus, and DNA binding domain in the C-terminus.
Post-translational modifications	Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus.
Cellular localization	Cytoplasm > cytosol. Nucleus. Cytosolic under unstressed conditions, translocates into the nucleus upon induction by electrophilic agents.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Nrf2 antibody [EP1808Y] (ab194986)

IHC image of Nrf2 staining in a section of formalin-fixed paraffin-embedded human breast adenocarcinoma*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins, and incubated overnight at +4°C with ab194986 at 1/500 dilution. DAB was used as the chromogen (**ab103723**), diluted 1/100 and incubated for 10min at room temperature. The section was counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody. For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

HRP Anti-Nrf2 antibody [EP1808Y] (ab194986)

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

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