

Product datasheet

Anti-Ubiquitin antibody [1B4-UB] ab122

★★★★★ 1 Abreviews 2 References 1 Image

Overview

Product name	Anti-Ubiquitin antibody [1B4-UB]
Description	Mouse monoclonal [1B4-UB] to Ubiquitin
Host species	Mouse
Tested applications	Suitable for: IHC-P, IHC-Fr, WB, IHC-FoFr, ELISA, Flow Cyt
Species reactivity	Reacts with: Cow, Human
Immunogen	Ubiquitin from bovine erythrocytes conjugated to bovine gamma globulin
Positive control	Human hypophysis

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.
Storage buffer	Preservative: 0.1% Sodium azide
Purity	Protein G purified
Purification notes	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Clonality	Monoclonal
Clone number	1B4-UB
Isotype	IgG1
Light chain type	unknown

Applications

Our [Abpromise guarantee](#) covers the use of **ab122** 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 - 1/1000.

Application	Abreviews	Notes
IHC-Fr		1/500 - 1/1000.
WB	★★★★☆	Use at an assay dependent concentration.
IHC-FoFr		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
Flow Cyt		1/10 - 1/50. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

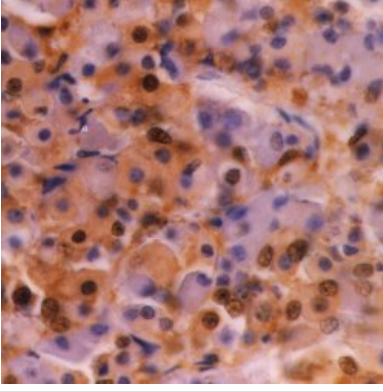
Relevance

Function: Ubiquitin exists either covalently attached to another protein, or free (unanchored). When covalently bound, it is conjugated to target proteins via an isopeptide bond either as a monomer (monoubiquitin), a polymer linked via different Lys residues of the ubiquitin (polyubiquitin chains) or a linear polymer linked via the initiator Met of the ubiquitin (linear polyubiquitin chains). Polyubiquitin chains, when attached to a target protein, have different functions depending on the Lys residue of the ubiquitin that is linked: Lys-6-linked may be involved in DNA repair; Lys-11-linked is involved in ERAD (endoplasmic reticulum-associated degradation) and in cell-cycle regulation; Lys-29-linked is involved in lysosomal degradation; Lys-33-linked is involved in kinase modification; Lys-48-linked is involved in protein degradation via the proteasome; Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF-kappa-B. Linear polymer chains formed via attachment by the initiator Met lead to cell signaling. Ubiquitin is usually conjugated to Lys residues of target proteins, however, in rare cases, conjugation to Cys or Ser residues has been observed. When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling. Similarity: Belongs to the ubiquitin family. Contains 3 ubiquitin-like domains.

Cellular localization

Cell Membrane, Cytoplasmic and Nuclear

Images



ab122 staining Ubiquitin in the tissue of human hypophysis by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ubiquitin antibody [1B4-UB] (ab122)

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