Datasheet for ABIN112320

anti-KRT4 antibody

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Overview

Quantity:	0.1 mg
Target:	KRT4
Reactivity:	Human, Dog, Cat, Zebrafish (Danio rerio)
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KRT4 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	6B10 is a mouse monoclonal IgG1 antibody derived by fusion of SP2/0 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with a cytokeratin preparation extracted from human esophagus.
Clone:	6B10
Isotype:	IgG1
Specificity:	This Monoclonal antibody 6B10 reacts exlcusively with Cytokeratin 4 which is present in non-cornifying squamous epithelium, including cornea and transitional epithelium. Cells in certain ciliated pseudo-stratified epithelia and ductal epithelia of various exocrine glands are also positive for 6B10.
Cross-Reactivity (Details):	Species reactivity (tested):Human, Canine, Feline, Zebrafish.

Product Details

Purification:	Purified

Target Details

Target:	KRT4
Alternative Name:	Cytokeratin 4 (KRT4 Products)
Background:	Cytokeratins are a subfamily of intermediate filament proteins and are characterized by a remarkable biochemical diversity, represented in human epithelial tissues by at least 20 different polypeptides. They range in molecular weight between 40 kDa and 68 kDa and isoelectric pH between 4.9 - 7.8. The individual human cytokeratins are numbered 1 to 20. The various epithelia in the human body usually express cytokeratins which are not only characteristic of the type of epithelium, but also related to the degree of maturation or differentiation within an epithelium. Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. The cytokeratin antibodies are not only of assistance in the differential diagnosis of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometric assays.Synonyms: CK4, CYK4, Cytokeratin-4, K4, KRT4, Keratin, Keratin-4, type II cytoskeletal 4
Gene ID:	9606
UniProt:	P19013

Application Details

Application Notes:	Immunocytochemistry. Immunohistochemistry on Frozen and Tissues (1/25-1/200) using with avidin-biotinylatedhorseradish peroxidase complex (ABC) as detection reagent. Immunoblotting (1/100-1/1000). Flow Cytometry (1/25-1/200). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, 0.09 % Sodium Azide
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Publications

Product cited in:	Liu, Li, Tan, Beuerman: "The eyelid margin: a transitional zone for 2 epithelial phenotypes." in: **Archives of ophthalmology (Chicago, Ill. : 1960)**, Vol. 125, Issue 4, pp. 523-32, (2007) (PubMed).