Anti-Lambda Light chain antibody

Cat. No.	ml160991
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-Lambda Light chain rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Synthetic peptide of human Lambda Light chain
Reactivity	Human
Content	0.1 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	Lambda Light chain
Full name	Ig lambda chain V-I region NEW
Synonyms	λlight chain
Swissprot	P01701

Target Background

Antibody producing cells of the immune system require multiple rearrangements of immunoglobulin (antibody, Ig) genes. Immunoglobulins are four-chain, Y-shaped, monomeric structures of two identical heavy chains and two identical light chains held together through interchain disulfide bonds. Immunoglobulins in vertebrates help to remove non-self molecules or cells (antigens) by recognizing and binding to the antigen and carrying out effector functions that activate the immune system. Variable genetic combinations of the five heavy chain classes (M, D, G, E and A) and the two light chain isotypes, Kappa and Lambda, confer the role of an antibody. The variable region genes encoding immunoglobulin Kappa and Lambda chains are assembled from three DNA segments, the V, C and J genes. Kappa and Lambda consist of a variable region and a constant region and can easily be differentiated by the antigenic properties of the constant region. The ratio of Kappa to Lambda is 70:30 , the vast majority of which is bound to heavy-chain in immunoglobulin.
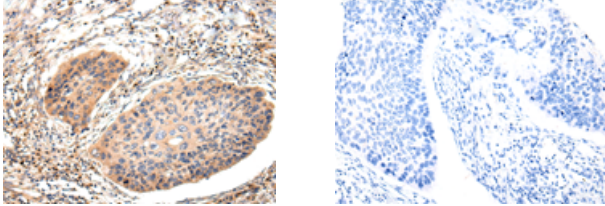
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human esophagus cancer
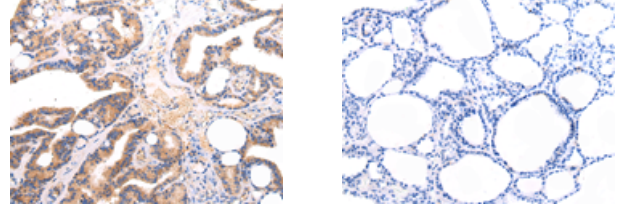
Recommended dilution: 25-100

The image on the left is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using ml160991(Lambda Light chain Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)

Predicted cell location: Cytoplasm

Positive control: Human thyroid cancer

Recommended dilution: 25-100

The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml160991(Lambda Light chain Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)

Western blotting

Predicted band size:25 kDa

Positive control:Human plasma solution

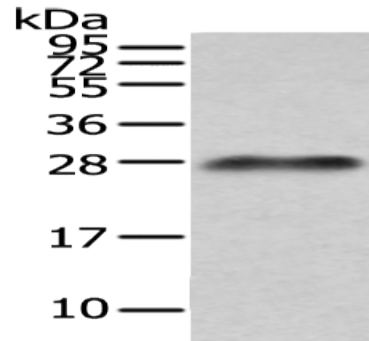Recommended dilution: 200-1000

Gel: 12%SDS-PAGE

Lysate: 40 μg

Lane: Human plasma solution

Primary antibody: ml160991(Lambda Light chain Antibody) at dilution 1/200

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 10 seconds

ELISA

Recommended dilution: 1000-2000

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