

# Rabbit clonal antibody

## CAT#

CONCENTRATED DB 001-IHC-0.1

 DB 001-IHC-0.1
 (100 µl)

 DB 001-IHC-0.2
 (200 µl)

 DB 001-IHC-0.5
 (500 µl)

 DB 001-IHC-1
 (1 ml)

READY TO USE (RTU) DB 001-IHC-RTU-7 DB 001-IHC-RTU-15

#### STORAGE AND APPLICATION CONCENTRATED

Storage: +4°C Application: IHC-P, dilution 1:100

## READY TO USE (RTU)

Storage: +4°C, Do not freeze! Application: IHC-P, ready to use

## Specificity: Expiration: Immunogen:

Clone:

Buffer:

Stabilizer:

Preservative:

(7 ml)

(15 ml)

Cellular localization: cytoplasm, cytoskeleton Positive control: muscle tissue, mesenteric vein tissue Protein accession number: P60709

S12-I

20 mM Tris-HCl, pH 8.0

between Lys359 - Ile369.

24 months from the shipping date

Peptide derived from C-terminal sequence of human

 $\beta\text{-actin.}$  Antibody recognizes the epitope located

20 mg/ml BSA

0.05% NaN<sub>3</sub>

Human

## **IHC-P PROTOCOL – INSTRUCTION MANUAL**

- 1. Deparaffinize the section in 3 changes of xylene, 10 minutes each.
- 2. Wash the section in 96%, 80% and 70% ethyl alcohol for 10 minutes each.
- 3. Rinse in distilled water, 2 x 5 minutes.
- 4. Block the endogenous peroxidase by incubating the tissue in 3% hydrogen peroxide  $(H_2O_2)$  for 10 minutes.
- 5. Wash in distilled water, 2 x 5 minutes.
- For antigen retrieval: Immerse the slide in citrate buffer, pH 6.0\* and incubate at 95-97°C in water bath for 25 minutes.
- Remove the staining to room temperature and let the slide to cool (in citrate buffer, pH 6.0) for 15 minutes.
- 8. Rinse in distilled water, 2 x 5 minutes.
- Wash in PBS (phosphate buffer saline, pH 7.0-7.5) supplemented with 0.05% of Tween-20 (buffer A), 2 x 5 min.
- 10. CONCENTRATED:

Incubate the section with primary antibody at the **dilution 1:100** for 1 hour in the closed wet chamber.

READY TO USE (RTU):

Incubate the section with primary antibody (ready to use) for 1 hour in a closed wet chamber.

- 11. Wash 3 x 5 minutes with buffer A.
- Apply the secondary antibody (the protocol depends on the supplier), and proceed to standard immunohistochemistry protocol (HRP - Peroxide - DAB). Micropolymer-HRP detection kit rabbit/mouse dual of DB Biotech is suggested (http://www.dbbiotech.com/products/detection-system.html).
- 13. Wash 3 x 5 minutes with buffer A.
- 14. Apply the chromogen (DAB), 1 3 minutes.
- 15. Wash in distilled water, 2 x 5 minutes.
- 16. Stain in hematoxylin for 5 minutes.
- 17. Wash in distilled water, 3 x 2 minutes.
- 18. Mount the slide for observation.

## \* Citrate Buffer (10mM Citric Acid, 0.05% Tween-20, pH 6.0):



Actin expression in mesenteric vein, detected with anti -  $\beta$ -actin (DB001) monospecific antibody. Formalin fixed, paraffin embedded human tissue (4 µm section) stained according to related DB Biotech datasheet.

#### VENTANA PROTOCOL – INSTRUCTION MANUAL SHORT APPLICATION PROTOCOL FOR VENTANA BENCHMARK SLIDE STAINING SYSTEM

#### PROCEDURE: U ultraView DAB

Deparafinization

PRODUCT INFORMATION

- 2. Heating (72 °C) at the medium temperatures. Deparafinization.
- 3. Cell conditioning
- 4. ULTRA conditioner #2
- 5. Heating glass (95 °C), incubation 8 min. (Cell conditioner #2; buffer CC2).
- 6. ULTRA CC2 solution application 44 min.
  - Antibody incubation temperature
     Heating glass (36 °C), incubation 4 min.
  - Heating glass (36 C), inc
     Titration
  - Hand apply primary antibody 100 µl. Incubation 36 min.
  - 11. ultraWash
  - 12. Nuclear stain
  - 13. Hematoxylin II application one drop (nuclear stain). Cover and incubate 12 min.
  - 14. After nuclear stain
  - 15. Bluing reagent application, one drop. After nuclear stain, cover and incubate 4 min

#### LEICA BOND MAX PROTOCOL – INSTRUCTION MANUAL SHORT APPLICATION PROTOCOL FOR LEICA BOND MAX SLIDE STAINING SYSTEM

Protocol F:

- Visualization system: BOND Refine DS9800
- Epitope retrieval / heating time / temperature: ER1 / 30 min. / 100 °C
- Incubation of primary antibody / temperature: 30 min. / 20 LT

#### PRECAUTIONS

- We strongly recommend to use DB Primary Antibody Diluent (catalog number DB D-125, or DB D-250), eventually alternative diluent (containing protease free BSA at the concentrations ≥ 1mg/ml) for dilution of concentrated antibodies, otherwise the warranty might be voided.
- 2. Centrifuge the vial before use.
- 3. Intended for professional In Vitro Diagnostic use in laboratories.
- 4. Do not use after expiration date stamped on vial label.
- 5. Avoid contamination of the reagent.
- Any discrepancies in the recommended procedures stated in the working protocol may affect the final results.
- The reagent contains sodium azide (NaN<sub>3</sub>) which is highly toxic in higher concentrations. The concentration in the reagent (0.05%) is not considered as hazardous.
- 8. Disposal of waste material must be conducted in accordance with local regulations.
- 9. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.