

Datasheet for ABIN1048286

anti-ACVR1C/ALK7 antibody (Internal Region)**3** Images[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	ACVR1C/ALK7 (ACVR1C)
Binding Specificity:	Internal Region
Reactivity:	Human, Cow, Pig, Bat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from internal region of human ACVR1C. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Bovine, Bat, Pig (100%), Marmoset, Elephant, Panda, Horse, Rabbit (94%), Opossum, Turkey, Chicken, Platypus (88%). Type of Immunogen: Synthetic peptide
Specificity:	Human ACVR1C. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Bovine, Bat, Pig (100%) Marmoset, Elephant, Panda, Horse, Rabbit (94%) Opossum, Turkey, Chicken, Platypus (88%).
Purification:	Immunoaffinity purified

Target Details

Target:	ACVR1C/ALK7 (ACVR1C)
Alternative Name:	ACVR1C / ALK7 (ACVR1C Products)
Background:	Name/Gene ID: ACVR1C Subfamily: Activin/TGFb Family: Protein Kinase Synonyms: ACVR1C, Activin receptor-like kinase 7, ACTR-IC, Activin receptor type IC, ACVRLK7, Activin receptor type-1C, ALK7, Activin A receptor, type IC, ALK-7
Gene ID:	130399
Pathways:	Negative Regulation of Hormone Secretion , Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Approved: IHC, IHC-P (5 µg/mL) Usage: Immunohistochemistry with formalin-fixed paraffin-embedded tissues requires pretreatment with Proteinase K.
Comment:	Target Species of Antibody: Human
Assay Procedure:	The IHC-pro Immunohistochemistry Protocol Tissue Preparation Formalin fixation and embedding in paraffin wax Tissue Sectioning Make 4-µm sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C Deparaffinization Wash slides in 3 changes of xylene – 5 minutes each at room temperature. Rehydration Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature. Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature. Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature. Rinse slides in gentle running distilled water – 5 minutes at room temperature.

Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Liquid
---------	--------

Concentration:	Lot specific
----------------	--------------

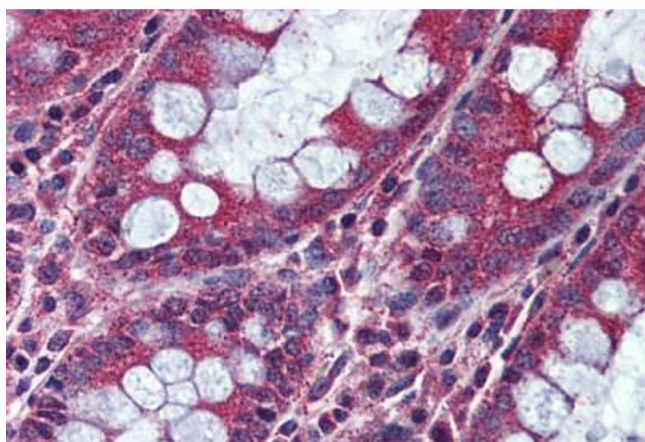
Buffer:	PBS, less than 0.1 % sodium azide.
---------	------------------------------------

Preservative:	Sodium azide
---------------	--------------

Handling

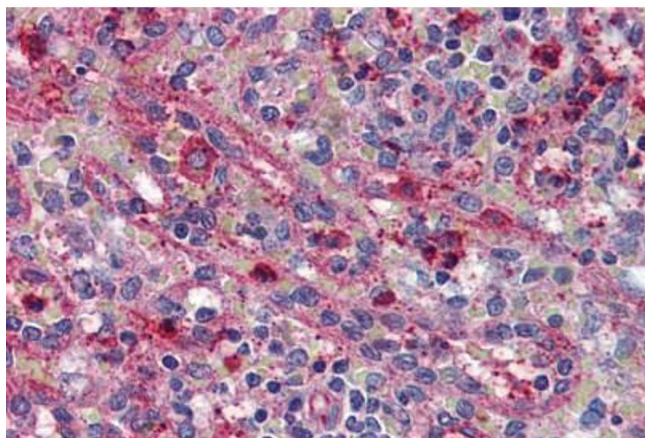
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



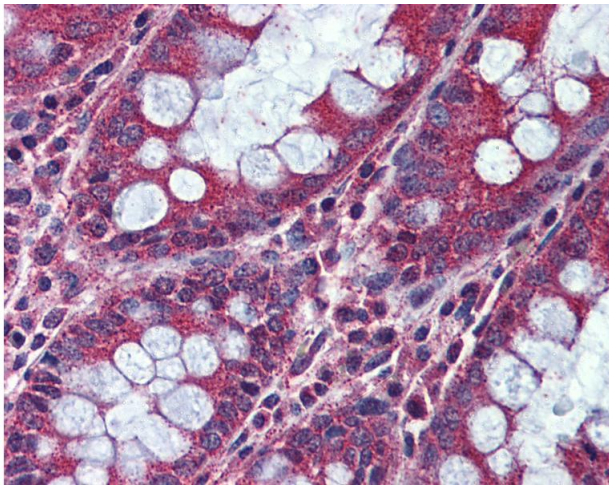
Immunohistochemistry

Image 1. Anti-ACVR1C antibody ABIN1048286 IHC staining of human colon. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-ACVR1C antibody ABIN1048286 IHC staining of human spleen. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 3. Anti-ACVR1C antibody IHC of human colon. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.