10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Relaxin 1 Picoband Antibody

Catalog # ABO13062

Product Information

Application	WB, IHC-P
Primary Accession	RLN1: P04808
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Relaxin 1 detection. Tested with WB, IHC-P in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Application Details	Western blot, 0.1-0.5 □g/ml Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml
Subcellular Localization	Secreted.
Tissue Specificity	Prostate. Not expressed in placenta, decidua or ovary.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence of human Relaxin 1 (VAAKWKDDVIKLCGRELVRAQIAICGMSTWS).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Background

Relaxin 1 is a member of relaxin-like peptide family. Relaxin gene maps to human chromosome 19 near D19Mit23. Relaxin is a peptide hormone produced by the corpora lutea of ovaries during pregnancy in many mammalian species, including man. Relaxin widens the pubic bone and facilitates labor, it also softens the

cervix (cervical ripening), and relaxes the uterine musculature. However, its significance may reach much further. Relaxin affects collagen metabolism, inhibiting collagen synthesis and enhancing its breakdown by increasing matrix metalloproteinases. It also enhances angiogenesis and is a potent renal vasodilator.

Images

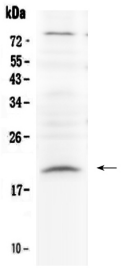


Figure 1. Western blot analysis of Relaxin 1 using anti-Relaxin 1 antibody (ABO13062). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat PC-12 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Relaxin 1 antigen affinity purified polyclonal antibody (Catalog # ABO13062) at 0.5 ug/mL overnight at 4 □□□, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Relaxin 1 at approximately 21KD. The expected band size for Relaxin 1 is at 21KD.

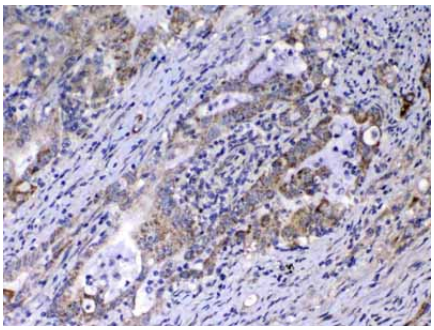


Figure 2. IHC analysis of Relaxin 1 using anti-Relaxin 1 antibody (ABO13062).Relaxin 1 was detected in paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Relaxin 1 Antibody (ABO13062) overnight at 4 □□□. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 □□□. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

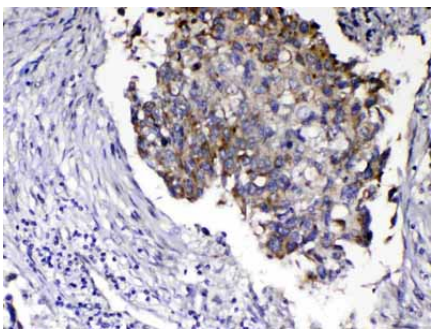
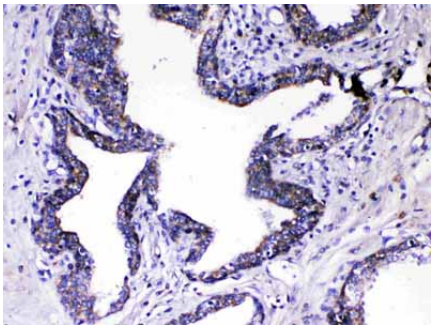


Figure 3. IHC analysis of Relaxin 1 using anti-Relaxin 1 antibody (ABO13062).Relaxin 1 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Relaxin 1 Antibody (ABO13062) overnight at 4 □□□. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 □□□. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Figure 4. IHC analysis of Relaxin 1 using anti-Relaxin 1 antibody (ABO13062).Relaxin 1 was detected in paraffin-embedded section of human prostatic cancer



tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Relaxin 1 Antibody (ABO13062) overnight at 4 □□□. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 □□□. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.