

## Product datasheet for **TA397433S**

### Rabbit Polyclonal Antibody

#### Product data:

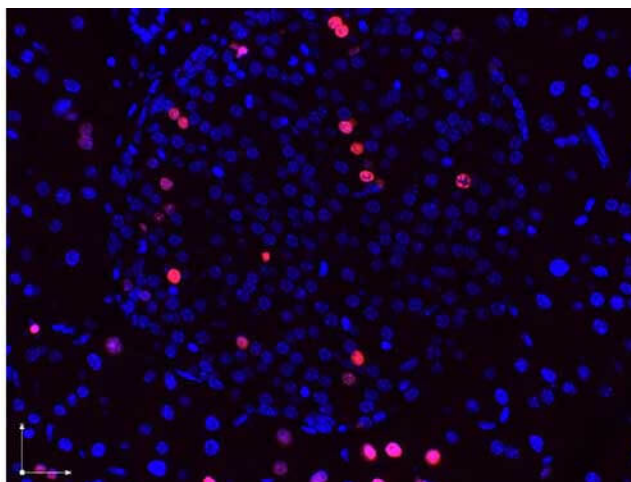
Product Type:	Primary Antibodies
Applications:	ELISA, FC, IF, IHC, IP, WB
Recommended Dilution:	<b>WB:</b> User Optimized <b>IHC:</b> 1:100-1:500 <b>IF:</b> 1:500 <b>FC:</b> 1:50-1:100 <b>ELISA:</b> 1:2000 - 1:10,000
Reactivity:	BrdU
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Anti-BrdU affinity purified antibody was purified from monospecific rabbit antiserum prepared via repeated immunizations with BromodeoxyUridine-KLH.
Specificity:	BrdU Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.1 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store BrdU Antibody at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is three (3) months from date of receipt.



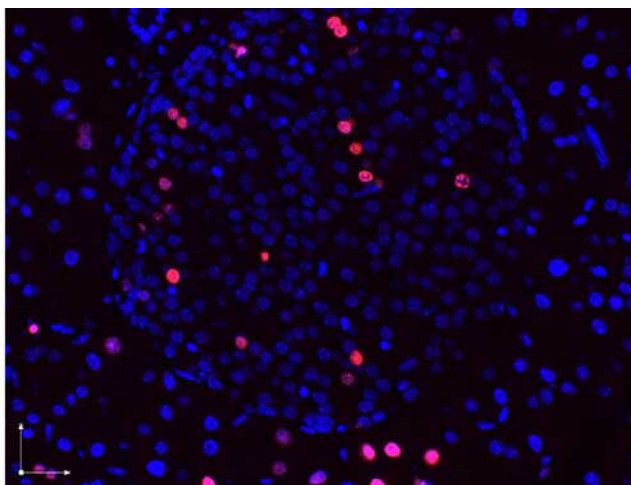
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- Background:** Bromodeoxyuridine (5-bromo-2'-deoxyuridine, BrdU) is a synthetic thymidine nucleoside analog. BrdU is commonly used to allow the detection of growing or proliferating cells in living tissues. During the S-phase of cell division, DNA replication occurs, and BrdU can be incorporated into the newly synthesized DNA by substituting for naturally occurring thymidine. Antibodies specific for BrdU are subsequently used to detect the incorporated BrdU thymidine analog. This highlights cells that were actively replicating their DNA and is suggestive of actively growing cells. Antibody binding usually requires the DNA to be denatured, typically by exposing the cells to acid or heat.
- Synonyms:** rabbit anti-BrdU antibody, bromodeoxyuridine, 5-bromo-2'-deoxyuridine
- Note:** Anti-BrdU Antibody has been tested by ELISA, WB, IHC, and is suitable for immunofluorescence microscopy and flow cytometry. Specific conditions for reactivity should be optimized by the end user. Expect to detect incorporated BrdU thymidine analog from replicated cells.

### Product images:



Immunofluorescence microscopy images of paraformaldehyde-fixed, paraffin-embedded pancreas sections stained with antibodies against BrdU (red or pink) and counterstained with DAPI (blue) and imaged with a 40× objective. DAPI stained nuclei (blue) indicate non-dividing cells, immunostained red and pink nuclei indicate actively dividing pancreatic  $\beta$ -cells. The antibodies were diluted to 2.7  $\mu\text{g}/\text{ml}$  and incubated with tissue sections overnight at 4 degrees. Donkey anti-rabbit secondary antibody was diluted 1:2500.



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