



Datasheet for ABIN1607683

## anti-IdU antibody



[Go to Product page](#)

1 Image

1 Publication

### Overview

Quantity:	100 µg
Target:	IdU
Reactivity:	Chemical
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunohistochemistry (IHC), Western Blotting (WB), ELISA, Fluorescence Microscopy (FM), Flow Cytometry (FACS)

### Product Details

Immunogen:	Anti-IdU monoclonal antibody was produced in mice by repeated immunizations prepared via immunizations with BromodeoxyUridine-KLH followed by hybridoma development. Immunogen Type: Other
Clone:	32D8-D9
Cross-Reactivity (Details):	Cross reactivity is not observed with BrdU, CldU or FdU.
Purity:	Anti-IdU Monoclonal Antibody was purified from ascites fluid by Protein A chromatography. This antibody is specific for IdU.
Endotoxin Level:	Low Endotoxin : No

### Target Details

Target:	IdU
Abstract:	<a href="#">IdU Products</a>

## Target Details

---

Target Type:	Chemical
Background:	Iododeoxyuridine (5-Iodo-2'-deoxyuridine, IdU) is a synthetic thymidine nucleoside analog. IdU, like BrdU thymidine analog, is used to allow the detection of growing or proliferating cells in living tissues. During the S-phase of cell division, DNA replication occurs, and IdU can be incorporated into the newly synthesized DNA by substituting for naturally occurring thymidine. Antibodies specific for IdU are subsequently used to detect the incorporated IdU 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: Iododeoxyuridine, 5-iodo-2'-deoxyuridine, IdU

## Application Details

---

Application Notes:	Anti-IdU Antibody has been tested as suitable for western blot, ELISA, and immunofluorescence microscopy. This antibody may be suitable for additional immunoassays including flow cytometry and immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect to detect incorporated IdU thymidine analog from replicated cells.  ELISA Dilution: 1:1000-1:10000  Western Blot Dilution: 1:2000 - 1:5000
--------------------	--

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

## Handling

---

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Storage:	4 °C/-20 °C
Storage Comment:	Store IdU Antibody at -20 °C prior to opening. Aliquot contents and freeze at -20 °C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	Expiration date is one (1) year from date of opening.

## Publications

---

Product cited in:	Rivera-Casas, Gonzalez-Romero, Garduño, Cheema, Ausio, Eirin-Lopez: "Molecular and
-------------------	--

Biochemical Methods Useful for the Epigenetic Characterization of Chromatin-Associated Proteins in Bivalve Molluscs." in: **Frontiers in physiology**, Vol. 8, pp. 490, (2017) ([PubMed](#)).



#### Western Blotting

**Image 1.** Western Blot of Anti-IdU Antibody. Lane 1: loading control. Lane 2: FdU. Lane 3: BrdU. Lane 4: IdU. Lane 5 CldU. Load: 20 µg per lane. Primary antibody: Anti-IdU antibody at 1:1000 for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed: IdU. Other band(s): no cross reactive bands were observed for other nucleoside analogs.