SYBR Safe DNA Gel Stain

Cat. No.: A8743

Concentration: 10000X

Storage: -20°C

Handling Information

SYBR Safe DNA Gel Stain is supplied as a concentrate in DMSO which can be used in the same way as ethidium bromide. It can be added into an agarose gel for staining during electrophoresis at a ratio of 1: 10000 or apply it after electrophoresis at a ratio of 1: 3300. Store at room temperature in its original packaging to avoid excessive light exposure.

Note: SYBR Safe DNA Gel Stain is less efficient in visualizing low molecule weight bands (100-200 bp).

Features

• Reduce exposure to highly mutagenic EB and harmful UV light.

SYBR Safe DNA Gel Stain is less mutagenic and safer for you to work with than ethidium bromide. You can further decrease your exposure risk by using visible blue-light with SYBR Safe stain rather than UV. This is especially valuable when performing exposure-intensive protocols like cutting bands out of gels.

• Increase sensitivity by reducing nonspecific background fluorescence.

SYBR Safe DNA Gel Stain offers excellent sensitivity in nucleic acid visualization with either UV excitation or blue-light excitation. When bound to nucleic acids, the green-fluorescent SYBR Safe stain has fluorescence excitation max at ~280 and ~502 nm, and an emission max at ~530 nm. Plus, when used with blue light, SYBR Safe DNA Gel Stain has less background fluorescence than ethidium bromide–stained gels with UV light.

Product Citations

1. Shen Y, Ha W, et al. "Exome sequencing identifies novel mutation signatures of UV radiation and trichostatin A in primary human keratinocytes." Sci Rep. 2020;10(1):4943. PMID:32188867

2. Urrutia G, Salmonson A, et al. "Combined Targeting of G9a and Checkpoint kinase 1 Synergistically Inhibits Pancreatic Cancer Cell Growth by Replication Fork Collapse." Mol Cancer Res. 2019 Dec 10. pii: molcanres.0490.2019. PMID:31822519

3. Volkman HE, Cambier S, et al. "Tight nuclear tethering of cGAS is essential for preventing autoreactivity." Elife. 2019 Dec 6;8. pii: e47491. PMID:31808743

4. Hannah E Volkman, Stephanie Cambier, et al. "cGAS is predominantly a nuclear protein." bioRxiv. 2018 December 04.

See more customer validations on www.apexbt.com

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com