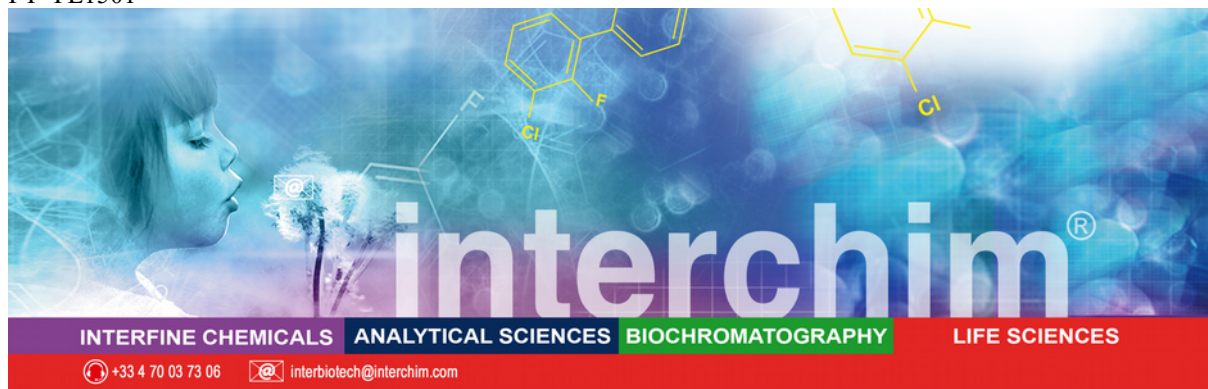




## Anti-HSA

### Product Description

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| <b>Name :</b>           | <b>Anti-HSA (Hydroxystilbamidine)</b><br>Rabbit polyclonal |
| <b>Catalog Number :</b> | FP-YL1501, 100µl                                           |

**Storage:** Immediately frozen upon arrival and stored in a cold (-20°C), dark, dry environment. Once the solution is thawed to prepare working titer, do not refreeze the solution. The freezer section, without the frost-free feature, of a good commercial refrigerator should suffice. If properly and continuously frozen, the antibody solution can be stored up to one year.

The antibody solution should remain frozen until ready for use. The 100µl aliquot of the Antibody is at a dilution of 1/100. The Antibody can be further diluted 1/50,000 to 1/100,000 times in BSA diluent (50 mM KPBS, 0.4% Triton, 1% BSA, 1% NGS) to produce 50ml to 100ml of working titer. This means you can dilute the solution you receive by 500 to 1000 times. This should treat 300 to 1000 sections. After preparation, the antibody solution can be stored for up to seven days in a cool (4°C), dark and dry environment. The refrigerator section of a good commercial refrigerator should suffice. We do not recommend that the solution be used beyond seven days after preparation.

### Directions for use

#### Guidelines for use

Hydroxystilbamidine (HSA tracer, also known as Fluoro-Gold) can be injected using several different methods, including pressure, iontophoretic and other applications developed by a variety of researchers. See *Schmued and Fallon, Fluoro-Gold: "A fluorescent retrograde axonal tracer with numerous unique properties", Brain Research, 377 (1986) 147-154* as well as *Pieribone and Aston-Jones, "The Iontophoretic Application of Fluoro-Gold for the study of afferents to deep brain nuclei", Brain Research, 475 (1988) 259-271*. Many researchers have developed their own modified procedures. Use of the antibody should not be dependent upon the methodology used to employ HSA tracer.

After the HSA tracer has been injected, floating sections (we used thirty um sections from a rat perfused with 4% formaldehyde) are incubated with the HSA Antibody solution overnight at 4°C. Sections are washed, then incubated in Biotinylated GAR (Uptima by Interchim, # UP668621) at 1/1000 for 1 hour at room temperature and washed again. Sections are then incubated in Avidin/Biotin (Vectastain Elite ABC kit from Vector Labs) at 1/1000 for 1 hour, washed and transferred to Diaminobenzidine (.04%) and Nickel Chloride (2.5%) in 0.1 M NaAcetate with 0.06% H<sub>2</sub>O<sub>2</sub> for six minutes. Sections are then washed, mounted, dried, dehydrated and cover slipped.

It has been our experience that if stored and prepared in the manner set out above, each vial of the antibody should treat 300 to 1000 thirty um sections of the albino rat brain (or similar sized animals) if you use the Vector Elite kit. However, you should experiment with the concentration and procedures to determine which best fit your circumstance.

## References

- **Pieribone and Aston-Jones**, "The Iontophoretic Application of Fluoro-Gold for the study of afferents to deep brain nuclei", *Brain Research*, 475 : 259-271 (1988)
- **Schmued and Fallon**, Fluoro-Gold: "A fluorescent retrograde axonal tracer with numerous unique properties", *Brain Research*, 377 :147-154 (1986)

## Technical and scientific information

### Related products

- Biotinylated GAR, UP668621
- DAB solution, UP732320

## Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>. Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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