

# Streptavidin – Poly-HRP

*PolyHRP conjugates for amplified (ultra-sensitive) detection of biotinylated compounds in ImmunoAssays*

## Products Description

### Streptavidin – Poly-HRP20

**Catalog #:** CV3681, 1 mg

+

### Streptavidin – Poly-HRP40

**Catalog #:** CV3701, 1 mg

+

### Streptavidin – Poly-HRP80

**Catalog #:** CV3711, 1 mg

+

**Buffer :** PBS, pH 7.3, with 50% Glycerol, 100 µg/ml HRP, 15 mg/ml BSA, and 600 ppm BND preservative

Streptavidin – Poly-HRP20/40/80 trial pack

**Catalog #:** CV3731, trial kit

Contains: 200µg SAV-Poly-HRP20

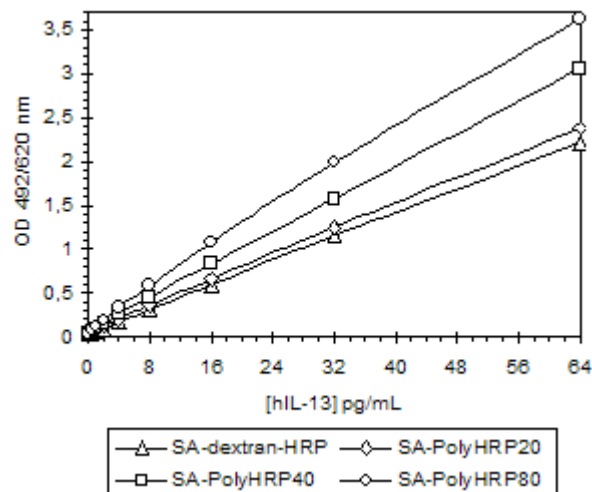
100µg SAV-Poly-HRP40

100µg SAV-Poly-HRP80

100ml biotin free casein diluent cat.#CV373d

**Storage:** -20°C (1)

**Application:** UltraSensitive Immunoassays



Streptavidin Poly-HRP Conjugate is streptavidin biotin-binding protein that is conjugated with polymers of horseradish peroxidase, enabling signal amplification and detection of biotinylated antibodies for IHC and other methods. The poly-HRP conjugates are designed to deliver the highest sensitivity and low background in immunoassays where sample volume is limited or when the target molecule is present at low levels. PolyHRP brings in reaction with substrate development system much larger number of enzyme label molecules (per one bound analyte molecule) than conventional conjugates do.

SA-PolyHRP conjugates are made of 5 identical covalent HRP homopolymer blocks that are; also covalently, coupled to multiple streptavidin molecules. An average total number of HRP monomer molecules in design of SA-PolyHRP20 is 100 (20 X 5), in SA-PolyHRP40 is 200 (40 X 5), and SA-PolyHRP80 is 400 (80 X 5).

See the Technical Notice [NT-CV368n<sup>1</sup>](#) for technical tips and answers to questions such as:

*What is PolyHRP? What makes PolyHRP ultra-sensitive?*

1. PolyHRP size.
2. Biotin.
3. Backgrounds.
4. Choice of the solid phase: immunoplates/strips/tubes/balls, etc.
5. Coating procedure with capture/binding antibody (as applied to standard 8 X 12 immunoplates).
6. Choice of specific SA-PolyHRP conjugate item.
7. Choice of effective detecting Antibody-biotin reagent and SA-PolyHRP concentration.
8. Incubation time/temperature/mode and other performance conditions.
7. Choice of effective detecting Antibody-biotin reagent and SA-PolyHRP concentration.
9. Antibody-biotin concentration

*Guide lines for use for ELISA with SA-PolyHRP*

*Appendix 1 - "Chess" titration experiment: suggested general Protocol*

## Related / associated products and documents

See [BioSciences Innovations catalogue](#) and [e-search tool](#).

(strept)avidin-HRP #51558C

CBC biotin free casein diluent #CV373D

BSA 30% solution #UP90010

see other saturating agents for immunoassays ([page A352+](#))

NHS-PEO<sub>n</sub>-Biotin #UPR20278 and #BZ0971

BND (5-Bromo-5-nitro-1,3-dioxane) #GN0955: Preservative agent, does not contain azide nor mercury; replaces Thimerosal, Azide, Xylenols and other Hazardous Preservatives

## Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

For any information, please ask : Uptima / Interchim

**Disclaimer :** Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household or cosmetic use. Uptima is not liable for any damage resulting from handling or use.

Rev.R12E-R07E

