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DATASHEET

Streptavidin-HRP

Product overview

Name Streptavidin-HRP

Cat No HB5225

Biological descriptionBiotin binding protein conjugated with horseradish peroxidase (HRP). Used to detect biotin labelled

molecules such as nucleic acids, antibodies, and other proteins. Biotinylated antibodies are bound with high affinity by Streptavidin-HRP, enabling colorimetric detection in IHC or chemiluminescent detection

in Western blots.

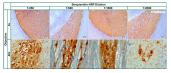
Species of origin E. coli

Applications ELISA, IHC, IHC-P, WB

DescriptionBiotin binding protein conjugated with HRP for colormetric detection in IHC and chemiluminescent

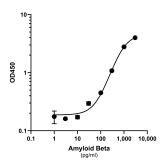
detection in WB

Images













Biological Data

Application notes

- Paraffin Embedded Immunohistochemistry (IHC-P): We recommend a starting dilution of 1:500 although this may need further optimisation depending upon the experimental conditions. Please see our paraffin embedded immunohistochemistry protocol for more information. We recommend developing the staining reaction using DAB (HB0687) as this produces a stable precipitate for imaging.
- Western Blot (WB): We recommend a starting dilution of 1:20,000 although this may need
 further optimisation depending upon affinity of the primary antibody and the abundance of the
 target probed for. We recommend developing using enhanced chemiluminescence (please see
 our range of ECL substrates). For more information please see our Western Blotting Protocol
- **ELISA**: We recommend a starting dilution of 1:10,000 although this will need optimising for the specific assay.

Storage instructions

Storage buffer 50% Glycerol, 50% PBS, pH 7.4

-20°C

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

Conjugate Horseradish peroxidase (HRP)

References

Application of HRP-streptavidin bionanoparticles for potentiometric biotin determination.

Büyüktiryaki S et al (2022) Bioelectrochemistry (Amsterdam, Netherlands) 144

PubMedID 34823072

Antibody-biotin-streptavidin-horseradish peroxidase (HRP) sensor for rapid and ultra-sensitive detection of fumonisins.

Yang H et al (2020) Food chemistry 316 **PubMedID** 32045810

Streptavidin-biotin-peroxidase nanocomplex-amplified microfluidics immunoassays for simultaneous detection of inflammatory biomarkers.

Wu J et al (2017) Analytica chimica acta 982 **PubMedID** 28734353