

Product REMBRANDT® Goat aMouse-HRP polymer conjugate

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REMBRANDT® Goat aRabbit-AP polymer conjugate

Code R009R.0000, R012R.0000

Technical specifications

Cat. No.	Description	Contents	Format	Appearance
R009R.0000	REMBRANDT® Goat anti mouse-horseradish peroxidase polymer conjugate; (POL CONJ MO-HRP)	3 ml (20 tests), clear vial, orange cap	Ready to use	Clear liquid
R012R.0000	REMBRANDT® Goat anti rabbit-alkaline phosphatase polymer conjugate; (POL CONJ RA-AP)	3 ml (20 tests), clear vial, orange cap	Ready to use	Clear liquid

Format : ready to use **RTU**
 Application : Polymer conjugated antibodies for the detection of mouse or rabbit epitopes in immunohistochemical (IHC) or *in situ* hybridisation (ISH) reactions
 Purification : affinity chromatography
 Storage : refrigerated (2-8 °C); do not freeze
 Stability : until expiry date printed on label
 Precautions : homogenise solutions before use

harmful: avoid contact with eyes and skin; do not swallow 

Related products

Product code	Product	Amount
R001R.0000	REMBRANDT® Mouse aBIO	3 ml
R002R.0000	REMBRANDT® Mouse aDIG	3 ml
R003R.0000	REMBRANDT® aDIG-AP Fab conjugate	15 ml
R004R.0000	REMBRANDT® aDIG-HRP Fab conjugate	15 ml
R041R.0000	REMBRANDT® aBIO-AP Fab conjugate	15 ml
R042R.0000	REMBRANDT® aBIO-HRP Fab conjugate	15 ml

Please contact your local supplier for further information.

Limitations of Procedure

Product REMBRANDT® Polymer conjugates

- The REMBRANDT® Polymer conjugates are for research use only and are solely applicable for the detection of mouse or rabbit epitopes in immunohistochemical or *in situ* hybridisation (ISH) reactions, which may be present in cell preparations (paraffin sections, frozen sections or cytological specimen).
- Either human tissue sections or human cytological preparations may be used. Samples must be fixed in buffered formalin or alcohol. In tissue sections are required, the sections should be prepared in a 4 µm thickness. Furthermore, the tissues should be glued to the glass slides with a bio-adhesive (e.g. organ silane), dried at room temperature, subsequently dried at 37 °C overnight and lastly completely deparaffinized in xylene and alcohol series and air dried. Many factors can influence the performance of the IHC/ISH procedure. Failure in detection can be due to i.e. improper sampling, handling, the time lapse between tissue removal and fixation, the size of the tissue specimen in the fixation medium, the fixation time, processing fixed tissue, the thickness of the section, the bio-adhesive on the slide, deparaffinisation procedure, incubation times, incubation temperatures, all other reagents (i.e. deparaffinisation reagents, proteolytic treatment, probes etc.) used in the procedure and interpretation of results.
- Cytological specimen should be prepared as required by the user, fixed with cytological fixation agent, rinsed in distilled water prior to the IHC procedure and air dried.
- Many factors can influence the performance of the IHC procedure. Failure in detection can be due to i.e. improper sampling, handling, the time lapse between tissue removal and fixation, the size of the tissue specimen in the fixation medium, the fixation time, processing fixed tissue, the thickness of the section, the bio-adhesive on the slide, deparaffinisation procedure, epitope retrieval methods, incubation times, detection reagents, incubation temperatures and interpretation of results.
- The performance of the IHC procedure is also affected by the sensitivity of the method and the presence of target epitopes; in case the limit of the sensitivity is reached or when the target epitope load is too low, a false negative reaction may be the result.
- The REMBRANDT® Polymer conjugates test results are not to be relied on in case the sampling, sampling method, quality, sample preparation, other reagents used, controls and procedure followed is not optimal.
- Laboratory personnel performing the test should be knowledgeable and be able to interpret the test results.

Recommended usage

The REMBRANDT® Polymer conjugates are recommended for usage as an antibody in an IHC or ISH reaction. The REMBRANDT® Polymer conjugates are ready to use.

Recommend protocol

Appropriate epitope retrieval methods should have been applied to the specimen before incubation with the antibodies.

1. Apply 3 drops of RTU REMBRANDT® Polymer conjugated antibodies to the sample and incubate at 37°C for 30 minutes
2. Wash the sample 3x 1 min in TBS or PBS
3. Continue with detection via a chromogen-substrate reaction or fluorescent detection.

Interpretation of the results

The REMBRANDT® Polymer conjugates are not able to directly visualize an assay result. For the detection of the polymer conjugate, a corresponding detection system should be used (see production in combination with other devices or contact your local distributor). It is recommended to always use positive and negative control samples within the IHC assay.

First, check the negative and positive controls that have been incubated with the test slides simultaneously:

- The negative control should be really negative, i.e. not show any localised colour precipitations. If the negative control could be interpreted as being positive, discard the results since no conclusions can be drawn.
- The positive control should show colour precipitations in conformity with the localisation of the target epitope. The colour should show the applicable shade (depending on chromogen-substrate or fluorescent detection) and must be clearly visible in the preferential cell/ tissue type and correspond to the target epitope localisation.

In the test slides, start under low power magnification and focus on localisation and colour to see whether:

- The positivity (colour precipitation or fluorescent signal) observed is localised in the cell type preferred by the target epitope.
- The colour has the right shade or fluorescent signal (no endogenous or formalin pigment; in case of brightfield detection, no autofluorescence; in case of fluorescent detection).

Product in combination with other devices

The REMBRANDT® Polymer conjugates can be used in combination with the REMBRANDT® NBT/BCIP chromogen substrate (R008R.0000), and the REMBRANDT® AEC chromogen substrate (R010R.0000). Other detection system for HRP or AP are compatible with the REMBRANDT® Polymer conjugates.

References

1. *Chalet, L. and Wolf, F., Arch. Biochem. Biophys., 106, 1 (1964).*
2. *Green, N.M., Meth. Enzymol., 18A, 418 (1970).*

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