

Human-on-Human HRP Polymer:

A guide to improve the use of humanized therapeutic antibody screenings

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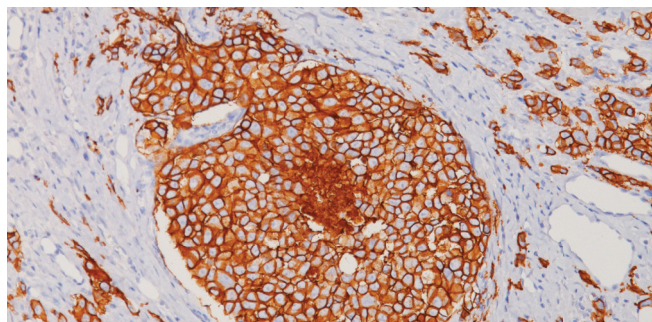
Humanized antibodies are an improving and rapidly growing class of therapeutics for treatment of human disease. Their efficacy depends highly on specificity and sensitivity for the desired target antigen. Thus, preclinical studies of potential human (and humanized) antibody therapeutics include immunohistochemical (IHC) screening.

A major technical problem in human antibody detection lies in non-specific staining due to endogenous human IgG. To counter this problem, Biocare created a Human-on-Human HRP-Polymer kit designed specifically for researchers utilizing humanized antibodies on human tissues for the development of human therapeutics. This system allows for reduced and simplified protocols while rendering high sensitivity and specificity against the target antigen of interest.

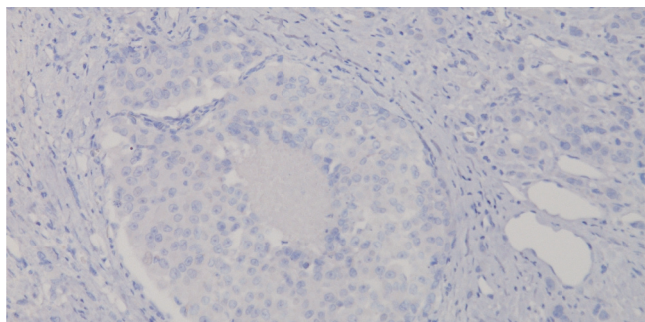
Human-on-Human HRP Polymer Technology Benefits

- Elimination of FITC antibody conjugation
- Reduced antibody incubation times
- No overnight incubation steps
- Significantly reduce or eliminate background
- Highly effective ancillary reagents
- Minimum cross-reactivity to endogenous IgG
- Archivable chromogenic visualization
- Suitable for both manual & automated techniques

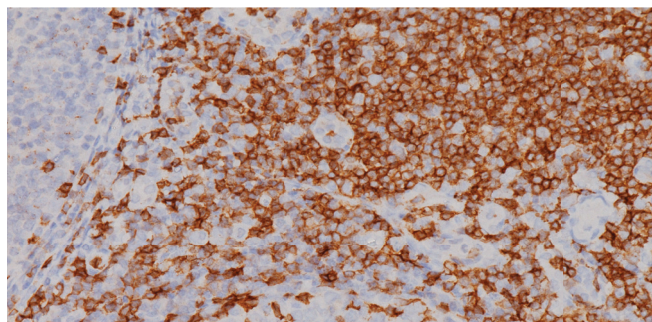
The detection kit provides reagents to tag the humanized primary antibody with a Digoxigenin (DIG) anti-Human Linker. Once labeled, the bound primary antibody is detected by a Mouse anti-Digoxigenin secondary, followed by an anti-mouse HRP polymer. An HRP chromogen color of choice is then applied to generate a permanently stained slide. This easy, modern method reduces non-specific staining with the added benefit of rapid screening.



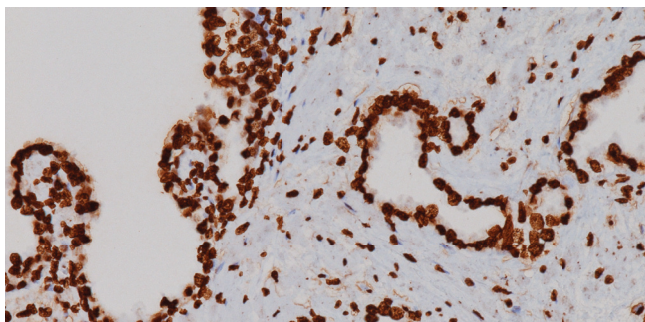
Human breast cancer stained with a humanized Her2neu antibody and Human-on-Human HRP-Polymer



Human breast cancer negative reagent control slide with Human-on-Human HRP-Polymer



Human tonsil stained with a humanized CD6 antibody and Human-on-Human HRP-Polymer



Human prostate cancer stained with humanized Histone antibody and Human-on-Human HRP-Polymer

To learn more about the Human-on-Human HRP Polymer, please contact us anytime at 800-799-9499 or check out the kit here: <https://biocare.net/product/human-human-hrp-polymer/>.

1. Chames, P, *et al.* Therapeutic antibodies successes, limitations and hopes for the future. *Br J Pharmacol.* 2009; 157(2):220-33
2. Peuscher, A, *et al.* An immunohistochemical assay on human tissue using a human primary antibody. *J Immunoassay Immunochem.* 2014;35(3):322-34
3. Human-on-Human HRP-Polymer. (n.d.). Biocare Medical. Retrieved March 26, 2020 from <https://biocare.net/product/human-human-hrp-polymer/>