Anti-Pax 2 Antibody

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Technology description

Summary

Available for licensing and commercialization are anti-Pax 2 polyclonal antibodies that can be used for the detection of Pax-2 protein expression in a variety of kidney and neuronal tissues. Pax-2 protein, a transcription factor active during early kidney development, is expressed at high levels in almost all renal proliferative diseases such as renal cancer, polycystic kidney disease and acute renal failure.
The Pax-2 protein has also been linked to Wilms' tumor, a cancerous kidney tumor accounting for ~6% of childhood cancers, and for which ~500 new cases are diagnosed each year in the U.S. Wilms' tumors are hard to diagnose in the early stage because they can grow quite large without causing any pain. While abdominal ultrasound may be used for detection, it is not a practical screening test for otherwise healthy children. There are no blood tests or other tests for screening for Wilms' tumors which, if diagnosed sufficiently early, may be treated with surgery, chemotherapy, and/or radiation therapy.
Potential applications of this technology may also include detection of Pax2 protein in urine for both chronic and acute renal disease.

Application area

Diagnostics for renal diseases.
Research tools for evaluating disease processes of the kidney and other tissues through Pax-2 protein expression in the relevant tissues.

Institution

NIH - National Institutes of Health

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