

**Docket #:** S08-099

# Anti-AF4 monoclonal antibody

Researchers in Dr. Michael Cleary's laboratory at Stanford University have developed a highly specific monoclonal antibody for AF4, a proto-oncoprotein associated with pediatric and adult leukemia. AF4 is one member of a small family of highly conserved proteins of unknown biochemical function that have been linked to acute leukemia (AF4, LAF4 and AF5) through protein fusions with the MLL histone methyltransferase. Biochemical studies implicate AF4 and AF5 in transcriptional regulation since they form a higher order protein complex with pTEF-B, which has roles in transcriptional elongation. This antibody could be used for research, diagnostic or therapeutic applications.

## Applications

- **Research** - tool for biochemical studies of AF4 functions in gene regulation and cancer
- **Diagnostic** - covalent conjugation with ligands for detection
- **Therapeutic** - covalent conjugation with ligands for drug targeting

## Advantages

- **Highly specific**

## Innovators

- Michael Cleary

## Licensing Contact

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