Announcements

Quiz

Pre-lab Lecture
  ❖ ELISA
  ❖ RT-PCR analysis
Announcements

• Module 3 report
  – Informal but clarity remains paramount
  – Due before you leave on Day 7

• Final project
  – Presentations on Day 8
  – HW, discussion on Day 6

4pm today seminar
ELISA

① Add protein → wash

② Block

③ 1st antibody

④ Wash

⑤ 2nd antibody

⑥ Substrate for AP → color

\[ \Delta - \text{collagen} \]
\[ \sigma - \text{other} \]
\[ \rightarrow \text{milk protein} \]
\[ 1^o \text{- anti-collagen} \] (rabbit prod.)
\[ \text{wash, Tween 20} \]
\[ \text{soap} \]

2nd antibody - anti-rabbit (goat prod.)

- alkaline phosphatase
RT-PCR analysis

- Be consistent
- Same analysis on different exposure times may give somewhat different results

- CN II/GAPDH ratio
  - CDR > MSC
- CN I/GAPDH ratio
  - MSC > CDR
- CNII / CN I ratio
  - *arbitrarily, relative benchmark, not ratio of actual transcripts
    
  default ~18 μL