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Immunoblot to detect reactivity of CF sera to nBPI, Ct-BPI, and Ct-BPI recombinant proteins

- 1. Prepare samples
 - a. Make up loading buffer (LB): [2X stock solution: 100ul 1M Tris pH6.8, 100ul Bromophenol Blue, 200ul 1M DTT, 400ul 10% SDS, 200ul glycerol]
 - i. Dilute to 1X in dH2O
 - b. Prepare labeled 1eppendorf tubes → and sample and loading buffer (30ul total): e.g. if sample 2ul add 2 ul 2X LB and 26ul 1X loading buffer
 - c. Boil the samples for 3' and keep at RT until use

	Amount to load	Volume protein	Volume LB	Volume LB
Sample	(ug)	(ul)	2X (ul)	1X (ul)
nBPI (100ug/ml)	1.2			
Ct-BPI (50 ug/ml)	1.2			
BPI1m (68.2 ug/ml)	1.2			
BPI2m (46.5 ug/ml)	1.2			
BPI3m (47.4 ug/ml)	1.2			

- 1. Assemble 12% SDS-PAGE gels (Bio-Rad, 4561043)
- 2. Running Buffer $(5X) 1L \rightarrow Dilute$ to 1X before running SDS-PAGE
 - a. 15g Tris
 - b. 72g glycine
 - c. 5g SDS
- 3. Load the samples (25ul each well) and run the SDS-PAGE gel at 100V until runs off (~1.5hr)
 - a. For ladder, dilute 1:1 (from stock) with 2X LB (also 25ul per well)

b) Immunoblot with CF serum and 2' HRP-labeled ab

- 4. Prepare 10X Transfer Buffer 1L
 - a. 30.3g Tris
 - b. 144g glycine
- 5. Prepare transfer buffer using 10X stock:
 - a. 100ml 10X stock
 - b. 200ml methanol
 - c. 700ml H2O

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	6. Assemble the sandwich cassettes and transfer samples onto nitrocellulose membrane
	a. Cut out blotting paper and nitrocellulose membrane → Soak in transfer buffer
	b. Remove gels from the glass plates, cut off the stacker
	c. Set up the transfer apparatus: black side on the bottom → sponge → blot paper
	\rightarrow gel \rightarrow nitrocellulose membrane \rightarrow blot paper \rightarrow sponge \rightarrow white side
	d. Insert cassette black to red, put an ice pack (and a small stir bar under ice pack)
	and fill with transfer buffer
	e. Transfer at 100V for 60min while stirring
	7. Block nitrocellulose membrane in TBS-Tween (TBS-T) + 10% FCS o/n at R.T.
	8. Prepare 2L of TBST in dH2O
	a. 20mM Tris/ pH 7.5
	b. 150mM NaCl
	c. 0.1% Tween 20
	9. Wash with TBS-T + 3% FCS (Make about 1L)
	a. 1 X 15min
	b. 3 X 5min
	10.Incubate with 10ml CF serum (1:100 in TBST+3% FCS) on the shaker for 3hrs at RT
	11.Wash with TBS-T + 3% FCS
	a. 1 X 15min
	b. 3 X 5min
	12.Incubate with 10ml goat anti-mouse HRP labeled 2' ab (1:3,000 in TBS-T + 3% FCS)
	for 1hr at RT on the shaker
	13.Wash 3X with TBS-T + 3% FCS
	a. 1 X 15min
	b. 5 X 5min

14.Add West Pico substrate and expose the membrane

a. For West Pico, uses 1mL for a full-sized blot. If using half-sized blot, scale down to 500uL. Pipette directly onto the blot and tilt until solution has fully covered the blot.